

Input: Colorimetric Offset Reflective System ORS18

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

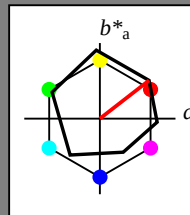
lab^*tch and lab^*nch

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)

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	-39.49	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*lab	1.0	0.0	0.0	
lab*lab	1.0	0.0	0.0	
lab*lab	1.0	0.0	0.0	
lab*lab	1.0	0.0	0.0	
lab*lab	1.0	0.0	0.0	
lab*lab	1.0	0.0	0.0	
lab*lab	1.0	0.0	0.0	
lab*lab	1.0	0.0	0.0	
lab*lab	1.0	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	76.12	0.0	0.0	

relative CIELAB lab*

lab*lab	0.846	0.197	0.153	
lab*lab	0.875	0.25	0.105	
lab*lab	0.875	0.25	0.105	
lab*lab	0.875	0.25	0.105	
lab*lab	0.875	0.25	0.105	
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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	56.78	0.13	2.11	
LAB*Lab	56.78	0.0	0.0	
LAB*Lab	56.78	0.0	0.0	

relative CIELAB lab*

lab*lab	0.596	0.24	0.071	
lab*lab	0.625	0.25	0.046	
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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	56.78	0.13	2.11	
LAB*Lab	56.78	0.0	0.0	
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olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
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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	56.78	0.13	2.11	
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relative CIELAB lab*

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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	56.78	0.13	2.11	
LAB*Lab	56.78	0.0	0.0	
LAB*Lab	56.78	0.0	0.0	

relative CIELAB lab*

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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	56.78	0.13	2.11	
LAB*Lab	56.78	0.0	0.0	
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relative CIELAB lab*

lab*lab	0.596	0.24	0.071	
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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	56.78	0.13	2.11	
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relative CIELAB lab*

lab*lab	0.596	0.24	0.071	
lab*lab	0.625	0.25	0.046	
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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	56.78	0.13	2.11	
LAB*Lab	56.78	0.0	0.0	
LAB*Lab	56.78	0.0	0.0	

relative CIELAB lab*

lab*lab	0.596	0.24	0.071	
lab*lab	0.625	0.25	0.046	
lab*lab	0.625	0.25	0.046	
lab*lab	0.625	0.25	0.046	
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lab*lab	0.625	0.25	0.046	
lab*lab	0.625	0.25	0.046	

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
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)

olv3*	1.0	0.5	0.5	(1.0)
olv3*	0.0	0.5	0.5	(0.0)
olv4*	1.0	0.5	0.5	(1.0)
olv4*	0.0	0.5	0.5	(0.0)
olv5*	1.0	0.5	0.5	(1.0)
olv5*	0.0	0.5	0.5	(0.0)
standard and adapted CIELAB				
LAB*Lab	71.7	32.45	28.38	
LAB*Lab	71.7	32.45	28.38	
LAB*Lab	71.7	32.45	28.38	

relative CIELAB lab*

lab*lab	0.693	0.395	0.307	
lab*lab	0.75	0.5	0.105	
lab*lab	0.75	0.5	0.105	
lab*lab	0.75	0.5	0.105	
lab*lab	0.75	0.5	0.105	
lab*lab	0.75	0.5	0.105	
lab*lab	0.75	0.5	0.105	
lab*lab	0.75	0.5	0.105	
lab*lab	0.75	0.5	0.105	
lab*lab	0.75	0.5	0.105	

relative CIELAB lab*			
lab*lab	0.693	0.395	0.307
lab*tch	0.75	0.5	0.105
lab*nch	0.0	0.5	0.105
relative Natural Colour (NC)			
lab*lrj	0.693	0.479	0.143
lab*tce	0.75	0.5	0.046
lab*nce	0.0	0.5	r18j

Input: Colorimetric Offset Reflective System ORS18

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

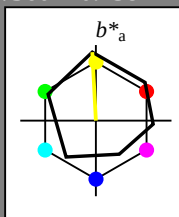
lab^*tch and lab^*nch

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
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 -0.39 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*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
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 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*LAB 76.12 0.0 0.0
LAB*LAB 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.75 0.75 0.75 (1.0)
lab*nch 0.25 0.25 0.25 (0.0)
relative Natural Colour (NC)
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.75 0.75 0.75 (1.0)
lab*nch 0.25 0.25 0.25 (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*LAB 56.78 0.0 0.0
LAB*LAB 50.00 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (0.0)
lab*tch 0.5 0.5 0.5 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.5 0.5 0.5 (0.0)
lab*tch 0.5 0.5 0.5 (0.0)
lab*nch 0.0 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 37.48 -0.37 0.82
LAB*LAB 37.48 0.0 0.0
LAB*LAB 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (0.0)
lab*tch 0.25 0.25 0.25 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.25 0.25 0.25 (0.0)
lab*tch 0.25 0.25 0.25 (0.0)
lab*nch 0.0 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 18.1 0.0 0.0
LAB*LAB 18.1 0.0 0.0
LAB*LAB 0.01 -

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

$n^* = 1.0$

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 94.34 -1.17 22.64
LAB*LAB 94.34 0.0 0.0
LAB*LAB 87.5 22.67 92.99

relative CIELAB lab*
lab*lab 0.985 -0.012 0.25
lab*tch 0.875 0.25 0.258
lab*nch 0.0 0.25 0.258
relative Natural Colour (NC)
lab*lab 0.985 -0.022 0.249
lab*tch 0.875 0.25 0.265
lab*nch 0.0 0.25 0.265

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 75.0 -1.17 22.64
LAB*LAB 75.0 0.0 0.0
LAB*LAB 62.5 22.68 92.99

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.625 0.25 0.258
lab*nch 0.25 0.25 0.258
relative Natural Colour (NC)
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.625 0.25 0.265
lab*nch 0.25 0.25 0.265

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 55.66 -1.02 24.69
LAB*LAB 55.66 -1.17 22.64
LAB*LAB 37.5 22.68 92.99

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (0.0)
lab*tch 0.375 0.25 0.258
lab*nch 0.25 0.25 0.258
relative Natural Colour (NC)
lab*lab 0.496 -0.022 0.249
lab*tch 0.496 0.25 0.265
lab*nch 0.0 0.25 0.265

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 36.32 -0.75 23.89
LAB*LAB 36.32 -1.17 22.64
LAB*LAB 12.5 22.67 92.99

relative CIELAB lab*
lab*lab 0.236 -0.012 0.25
lab*tch 0.125 0.25 0.258
lab*nch 0.25 0.25 0.258
relative Natural Colour (NC)
lab*lab 0.496 -0.022 0.249
lab*tch 0.496 0.25 0.265
lab*nch 0.0 0.25 0.265

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 0.0
LAB*LAB 18.1 0.0 0.0
LAB*LAB 0.01 -

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

$n^* = 0.50$

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 93.22 -2.72 49.83
LAB*LAB 93.22 -2.36 45.28
LAB*LAB 75.0 45.34 92.99

relative CIELAB lab*
lab*lab 0.971 -0.025 0.499
lab*tch 0.75 0.5 0.258
lab*nch 0.0 0.5 0.258
relative Natural Colour (NC)
lab*lab 0.971 -0.046 0.498
lab*tch 0.75 0.5 0.265
lab*nch 0.0 0.5 0.265

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 73.89 -2.46 48.55
LAB*LAB 73.89 -2.36 45.29
LAB*LAB 50.0 45.35 92.99

relative CIELAB lab*
lab*lab 0.721 -0.025 0.499
lab*tch 0.5 0.5 0.258
lab*nch 0.0 0.5 0.258
relative Natural Colour (NC)
lab*lab 0.721 -0.046 0.498
lab*tch 0.5 0.5 0.265
lab*nch 0.0 0.5 0.265

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 54.25 -2.19 47.25
LAB*LAB 54.25 -2.36 45.28
LAB*LAB 25.01 45.34 92.99

relative CIELAB lab*
lab*lab 0.471 -0.025 0.499
lab*tch 0.25 0.5 0.258
lab*nch 0.0 0.5 0.258
relative Natural Colour (NC)
lab*lab 0.471 -0.046 0.498
lab*tch 0.25 0.5 0.265
lab*nch 0.0 0.5 0.265

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 36.32 -0.75 23.89
LAB*LAB 36.32 -1.17 22.64
LAB*LAB 12.5 22.67 92.99

relative CIELAB lab*
lab*lab 0.236 -0.012 0.25
lab*tch 0.125 0.25 0.258
lab*nch 0.25 0.25 0.258
relative Natural Colour (NC)
lab*lab 0.496 -0.022 0.249
lab*tch 0.496 0.25 0.265
lab*nch 0.0 0.25 0.265

$n^* = 0.25$

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 92.11 -3.89 72.4
LAB*LAB 92.11 -3.54 67.92
LAB*LAB 62.5 68.02 92.99

relative CIELAB lab*
lab*lab 0.957 -0.038 0.749
lab*tch 0.625 0.75 0.258
lab*nch 0.0 0.75 0.258
relative Natural Colour (NC)
lab*lab 0.957 -0.069 0.747
lab*tch 0.625 0.75 0.265
lab*nch 0.0 0.75 0.265

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 90.99 -5.06 94.96
LAB*LAB 90.99 -4.72 90.56
LAB*LAB 50.0 90.68 92.99

relative CIELAB lab*
lab*lab 0.942 -0.051 0.998
lab*tch 0.5 1.0 0.258
lab*nch 0.0 1.0 0.258
relative Natural Colour (NC)
lab*lab 0.942 -0.093 0.995
lab*tch 0.5 1.0 0.265
lab*nch 0.0 1.0 0.265

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 72.77 -3.62 71.11
LAB*LAB 72.77 -3.54 67.92
LAB*LAB 37.5 68.02 92.99

relative CIELAB lab*
lab*lab 0.707 -0.038 0.749
lab*tch 0.375 0.75 0.258
lab*nch 0.0 0.75 0.258
relative Natural Colour (NC)
lab*lab 0.707 -0.069 0.747
lab*tch 0.375 0.75 0.265
lab*nch 0.0 0.75 0.265

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 46.73 -0.78 41.29
LAB*LAB 46.73 -0.78 41.29
LAB*LAB 25.01 41.89 99.75

relative CIELAB lab*
lab*lab 0.496 -0.022 0.499
lab*tch 0.25 0.5 0.258
lab*nch 0.0 0.5 0.258
relative Natural Colour (NC)
lab*lab 0.496 -0.046 0.498
lab*tch 0.25 0.5 0.265
lab*nch 0.0 0.5 0.265

$n^* = 0.00$

blackness n^*

chromaticness c^*

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 100/360 = 0.277$

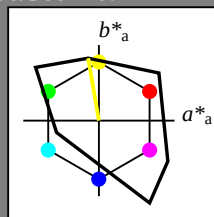
lab^*tch and lab^*nch

D50: hue Y

LCH*Ma: 93 84 100

olv*Ma: 1.0 1.0 0.0

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)
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*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
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 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*LAB 71.57 0.0 0.0
LAB*LAB 75.00 0.01 -

relative CIELAB lab*
lab*lab 1.0 1.0 1.0 (1.0)
lab*tch 0.75 0.75 0.75 (1.0)
lab*nch 0.25 0.25 0.25 (0.0)
relative Natural Colour (NC)
lab*lab 1.0 1.0 1.0 (1.0)
lab*tch 0.75 0.75 0.75 (1.0)
lab*nch 0.25 0.25 0.25 (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*LAB 47.72 0.0 0.0
LAB*LAB 50.00 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (0.0)
lab*tch 0.5 0.5 0.5 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.5 0.5 0.5 (0.0)
lab*tch 0.5 0.5 0.5 (0.0)
lab*nch 0.0 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 37.5 0.0 0.0
LAB*LAB 37.5 0.0 0.0
LAB*LAB 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (0.0)
lab*tch 0.25 0.25 0.25 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.25 0.25 0.25 (0.0)
lab*tch 0.25 0.25 0.25 (0.0)
lab*nch 0.0 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 18.1 0.0 0.0
LAB*LAB 18.1 0.0 0.0
LAB*LAB 0.01 -

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

$n^* = 1.0$

blackness n^*

chromaticness c^*

PE500-7, 5 step scales for constant CIELAB hue 93/360 = 0.258 (left)

Version 2.1, io=1,1

output: *no change compared to input*

	L	V
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Input: Colorimetric Offset Reflective System ORS18

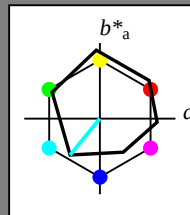
for hue $h^* = lab^*h = 231/360 = 0.641$
 lab^*tch and lab^*nch

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
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*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*tch 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*tce 1.0 0.0 -
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olv3* 0.75 1.0 1.0 (1.0)
cmyn3* 0.25 0.0 0.0 (0.0)
olv4* 0.75 1.0 1.0 1.0
cmyn4* 0.25 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 85.84 -10.09 -7.96
LAB*LAB 85.84 -9.82 -12.01
LAB*LAB 87.5 15.53 230.72

relative CIELAB lab*
lab*lab 0.876 -0.157 -0.192
lab*tch 0.875 0.25 0.641
lab*nch 0.0 0.25 0.641
relative Natural Colour (NC)
lab*trj 0.876 -0.125 -0.215
lab*tce 0.875 0.25 0.666
lab*nce 0.0 0.25 0.666

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 0.75
cmyn4* 0.0 0.0 0.0 0.25
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 -

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 -
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 -

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 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 66.22 -19.8 -20.63
LAB*LAB 66.22 -19.66 -24.04
LAB*LAB 75.0 31.07 230.72

relative CIELAB lab*
lab*lab 0.751 -0.315 -0.386
lab*tch 0.75 0.5 0.641
lab*nch 0.0 0.5 0.641
relative Natural Colour (NC)
lab*trj 0.751 -0.252 -0.43
lab*tce 0.75 0.5 0.666
lab*nce 0.0 0.5 0.666

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 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 56.78 0.12 2.11
LAB*LAB 56.78 0.0 0.0
LAB*LAB 50.0 0.01 -

relative CIELAB lab*
lab*lab 0.626 -0.125 -0.215
lab*tch 0.625 0.25 0.666
lab*nch 0.0 0.25 0.666
relative Natural Colour (NC)
lab*trj 0.626 -0.125 -0.215
lab*tce 0.625 0.25 0.666
lab*nce 0.0 0.25 0.666

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olv4* 0.5 1.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 36.88 -19.53 -21.92
LAB*LAB 36.88 -19.67 -24.05
LAB*LAB 50.0 31.07 230.72

relative CIELAB lab*
lab*lab 0.501 -0.252 -0.43
lab*tch 0.5 0.5 0.641
lab*nch 0.0 0.5 0.641
relative Natural Colour (NC)
lab*trj 0.501 -0.252 -0.43
lab*tce 0.5 0.5 0.666
lab*nce 0.0 0.5 0.666

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 37.44 -19.26 -23.48
LAB*LAB 37.44 -19.37 -26.07
LAB*LAB 50.0 31.07 230.72

relative CIELAB lab*
lab*lab 0.376 -0.315 -0.386
lab*tch 0.375 0.25 0.641
lab*nch 0.0 0.25 0.641
relative Natural Colour (NC)
lab*trj 0.376 -0.315 -0.386
lab*tce 0.375 0.25 0.666
lab*nce 0.0 0.25 0.666

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 56.99 -39.34 -48.1
LAB*LAB 56.99 -39.34 -48.1
LAB*LAB 50.0 31.07 230.72

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 99.99 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 99.99 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 99.99 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 99.99 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 99.99 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 99.99 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 99.99 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 99.99 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 99.99 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 99.99 0.01 -

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

PE500-7, 5 step scales for constant CIELAB hue 231/360 = 0.641 (left)

BAM-test chart PE50; Colorimetric systems ORS18 & TLS00

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

Output: Colorimetric Television Luminous System TLS00

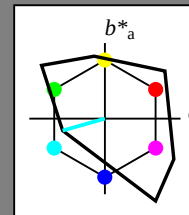
for hue $h^* = lab^*h = 196/360 = 0.544$
 lab^*tch and lab^*nch

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
RC _{IE}	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*tch 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*tce 1.0 0.0 0.0
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olv3* 0.75 1.0 1.0 (1.0)
cmyn3* 0.25 0.0 0.0 (0.0)
olv4* 0.75 1.0 1.0 1.0
cmyn4* 0.25 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 85.84 -10.09 -7.96
LAB*LAB 85.84 -9.82 -12.01
LAB*LAB 87.5 15.53 230.72

relative CIELAB lab*
lab*lab 0.876 -0.157 -0.192
lab*tch 0.875 0.25 0.641
lab*nch 0.0 0.25 0.641
relative Natural Colour (NC)
lab*trj 0.876 -0.125 -0.215
lab*tce 0.875 0.25 0.666
lab*nce 0.0 0.25 0.666

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 0.5
cmyn4* 0.0 0.0 0.0 0.5
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 -

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 -
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 -

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olv4* 0.5 1.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 36.88 -19.53 -21.92
LAB*LAB 36.88 -19.67 -24.05
LAB*LAB 50.0 31.07 230.72

relative CIELAB lab*
lab*lab 0.501 -0.252 -0.43
lab*tch 0.5 0.5 0.641
lab*nch 0.0 0.5 0.641
relative Natural Colour (NC)
lab*trj 0.501 -0.252 -0.43
lab*tce 0.5 0.5 0.666
lab*nce 0.0 0.5 0.666

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 99.99 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 99.99 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 99.99 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 91.0 -4.72 90.58
LAB*LAB 99.99 0.01 -

Input: Colorimetric Offset Reflective System ORS18

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

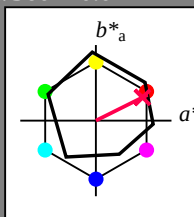
lab^*tch and lab^*nch

D50: hue R

LCH*Ma: 49 76 26

olv*Ma: 1.0 0.0 0.3

triangle lightness t^*



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*LABa 95.46 0.0 0.0
LAB*TCHa 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 -12.12 3.4
LAB*LABa 76.12 0.0 0.0
LAB*TCHa 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)
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*TCHa 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)
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 37.24 0.67 0.82
LAB*LABa 37.24 0.0 0.0
LAB*TCHa 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)
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 0.0 0.0
LAB*LABa 18.1 0.0 0.0
LAB*TCHa 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 18.1 0.0 0.0
LAB*LABa 18.1 0.0 0.0
LAB*TCHa 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* 1.0 0.75 0.825 (1.0)
cmyn3* 0.0 0.25 0.175 (0.0)
olv4* 1.0 0.75 0.825 (1.0)
cmyn4* 0.0 0.25 0.175 (0.0)
standard and adapted CIELAB
LAB*LAB 83.73 16.82 12.41
LAB*LABa 83.73 17.06 8.49
LAB*TCHa 97.5 19.06 20.46

relative CIELAB lab*
lab*lab 1.0 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*tce 0.875 0.25 0.0
lab*nce 0.0 0.25 0.073

relative Inform. Technology (IT)
olv3* 0.75 0.5 0.575 (1.0)
cmyn3* 0.25 0.5 0.425 (0.0)
olv4* 1.0 0.75 0.825 (1.0)
cmyn4* 0.0 0.25 0.175 (0.0)
standard and adapted CIELAB
LAB*LAB 64.39 17.1 11.12
LAB*LABa 64.39 17.07 8.5
LAB*TCHa 62.5 19.06 26.46

relative CIELAB lab*
lab*lab 0.598 0.224 0.111
lab*tch 0.625 0.25 0.074
lab*nch 0.25 0.25 0.074
relative Natural Colour (NC)
lab*trj 0.598 0.25 0.0
lab*tce 0.625 0.25 0.0
lab*nce 0.25 0.25 0.074

relative Inform. Technology (IT)
olv3* 0.5 0.25 0.4 (1.0)
cmyn3* 0.25 0.75 0.6 (0.0)
olv4* 1.0 0.5 0.655 (0.75)
cmyn4* 0.0 0.5 0.355 (0.25)
standard and adapted CIELAB
LAB*LAB 52.67 34.32 18.84
LAB*LABa 52.67 34.13 16.99
LAB*TCHa 50.0 38.13 26.46

relative CIELAB lab*
lab*lab 0.447 0.448 0.223
lab*tch 0.5 0.5 0.074
lab*nch 0.0 0.5 0.074
relative Natural Colour (NC)
lab*trj 0.447 0.5 0.0
lab*tce 0.447 0.5 0.0
lab*nce 0.25 0.5 0.074

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.15 (1.0)
cmyn3* 0.5 0.0 0.85 (0.0)
olv4* 1.0 0.5 0.655 (0.5)
cmyn4* 0.0 0.5 0.355 (0.5)
standard and adapted CIELAB
LAB*LAB 33.33 34.58 17.37
LAB*LABa 33.33 34.13 16.99
LAB*TCHa 25.01 38.12 26.47

relative CIELAB lab*
lab*lab 0.397 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 0.397 0.5 0.0
lab*tce 0.397 0.5 0.0
lab*nce 0.25 0.5 0.074

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.1 (1.0)
cmyn3* 0.75 1.0 0.955 (0.0)
olv4* 1.0 0.75 0.825 (1.0)
cmyn4* 0.0 0.25 0.175 (0.0)
standard and adapted CIELAB
LAB*LAB 25.71 17.62 8.54
LAB*LABa 25.71 17.06 8.5
LAB*TCHa 12.5 19.06 26.48

relative CIELAB lab*
lab*lab 0.098 0.224 0.111
lab*tch 0.125 0.25 0.074
lab*nch 0.0 0.25 0.074
relative Natural Colour (NC)
lab*trj 0.125 0.25 0.0
lab*tce 0.125 0.25 0.0
lab*nce 0.75 0.25 0.074

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 0.0 0.0
LAB*LABa 18.1 0.0 0.0
LAB*TCHa 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* 1.0 0.5 0.65 (1.0)
cmyn3* 0.0 0.5 0.35 (0.0)
olv4* 1.0 0.5 0.65 (1.0)
cmyn4* 0.0 0.5 0.35 (0.0)
standard and adapted CIELAB
LAB*LAB 72.0 34.05 20.12
LAB*LABa 72.0 34.13 16.99
LAB*TCHa 75.0 38.12 26.46

relative CIELAB lab*
lab*lab 0.697 0.448 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*tce 0.75 0.5 0.0
lab*nce 0.0 0.5 0.074

relative Inform. Technology (IT)
olv3* 0.75 0.25 0.4 (1.0)
cmyn3* 0.25 0.75 0.6 (0.0)
olv4* 1.0 0.5 0.655 (0.75)
cmyn4* 0.0 0.5 0.355 (0.25)
standard and adapted CIELAB
LAB*LAB 60.28 51.28 27.84
LAB*LABa 60.28 51.29 25.48
LAB*TCHa 62.5 57.18 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*tce 0.625 0.75 0.0
lab*nce 0.0 0.75 0.074

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.25 (1.0)
cmyn3* 0.5 0.0 0.75 (0.0)
olv4* 1.0 0.5 0.655 (0.75)
cmyn4* 0.0 0.5 0.355 (0.25)
standard and adapted CIELAB
LAB*LAB 48.56 68.5 35.55
LAB*LABa 48.56 68.25 33.98
LAB*TCHa 50.0 76.24 26.47

relative CIELAB lab*
lab*lab 0.384 0.895 0.446
lab*tch 0.5 1.0 0.074
lab*nch 0.0 1.0 0.074
relative Natural Colour (NC)
lab*trj 0.394 1.0 0.0
lab*tce 0.5 1.0 0.0
lab*nce 0.0 1.0 0.074

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 37.61 20.38 10.46
LAB*LABa 37.61 20.38 10.46
LAB*TCHa 37.5 22.9 27.17

relative CIELAB lab*
lab*lab 0.394 0.222 0.114
lab*tch 0.375 0.25 0.073
lab*nch 0.0 0.25 0.073
relative Natural Colour (NC)
lab*trj 0.394 0.25 0.0
lab*tce 0.375 0.25 0.0
lab*nce 0.25 0.25 0.073

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 37.61 20.38 10.46
LAB*LABa 37.61 20.38 10.46
LAB*TCHa 37.5 22.9 27.17

relative CIELAB lab*
lab*lab 0.394 0.222 0.114
lab*tch 0.375 0.25 0.073
lab*nch 0.0 0.25 0.073
relative Natural Colour (NC)
lab*trj 0.394 0.25 0.0
lab*tce 0.375 0.25 0.0
lab*nce 0.25 0.25 0.073

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 0.0 0.0
LAB*LABa 18.1 0.0 0.0
LAB*TCHa 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* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 0.5 0.655 (0.75)
cmyn4* 0.0 0.5 0.355 (0.25)
standard and adapted CIELAB
LAB*LAB 48.56 68.5 35.55
LAB*LABa 48.56 68.25 33.98
LAB*TCHa 50.0 76.24 26.47

relative CIELAB lab*
lab*lab 0.384 0.895 0.446
lab*tch 0.5 1.0 0.074
lab*nch 0.0 1.0 0.074
relative Natural Colour (NC)
lab*trj 0.394 1.0 0.0
lab*tce 0.5 1.0 0.0
lab*nce 0.0 1.0 0.074

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 37.61 20.38 10.46
LAB*LABa 37.61 20.38 10.46
LAB*TCHa 37.5 22.9 27.17

relative CIELAB lab*
lab*lab 0.394 0.222 0.114
lab*tch 0.375 0.25 0.073
lab*nch 0.0 0.25 0.073
relative Natural Colour (NC)
lab*trj 0.394 0.25 0.0
lab*tce 0.375 0.25 0.0
lab*nce 0.25 0.25 0.073

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 0.0 0.0
LAB*LABa 18.1 0.0 0.0
LAB*TCHa 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 18.1 0.0 0.0
LAB*LABa 18.1 0.0 0.0
LAB*TCHa 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 18.1 0.0 0.0
LAB*LABa 18.1 0.0 0.0
LAB*TCHa 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 18.1 0.0 0.0
LAB*LABa 18.1 0.0 0.0
LAB*TCHa 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* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 0.5 0.655 (0.75)
cmyn4* 0.0 0.5 0.355 (0.25)
standard and adapted CIELAB
LAB*LAB 48.56 68.5 35.55
LAB*LABa 48.56 68.25 33.98
LAB*TCHa 50.0 76.24 26.47

relative CIELAB lab*
lab*lab 0.384 0.895 0.446
lab*tch 0.5 1.0 0.074
lab*nch 0.0 1.0 0.074
relative Natural Colour (NC)
lab*trj 0.394 1.0 0.0
lab*tce 0.5 1.0 0.0
lab*nce 0.0 1.0 0.074

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 37.61 20.38 10.46
LAB*LABa 37.61 20.38 10.46
LAB*TCHa 37.5 22.9 27.17

relative CIELAB lab*
lab*lab 0.394 0.222 0.114
lab*tch 0.375 0.25 0.073
lab*nch 0.0 0.25 0.073
relative Natural Colour (NC)
lab*trj 0.394 0.25 0.0
lab*tce 0.375 0.25 0.0
lab*nce 0.25 0.25 0.073

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 0.0 0.0
LAB*LABa 18.1 0.0 0.0
LAB*TCHa 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 18.1 0.0 0.0
LAB*LABa 18.1 0.0 0.0
LAB*TCHa 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 18.1 0.0 0.0
LAB*LABa 18.1 0.0 0.0
LAB*TCHa 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 18.1 0.0 0

Input: Colorimetric Offset Reflective System ORS18

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

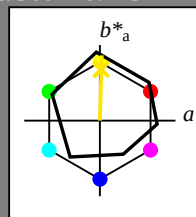
lab^*tch and lab^*nch

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)
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 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 76.12 -0.12 3.4
LAB*LABa 76.12 0.0 0.0
LAB*LABb 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 0.25 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 0.25 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 50.00 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 0.5 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 0.5 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
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 37.14 0.37 0.82
LAB*LABa 37.14 0.0 0.0
LAB*LABb 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 0.25 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 0.25 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 10.00 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

$n^* = 1.0$

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 0.948 0.5 (1.0)
cmyn3* 0.0 0.052 0.5 (0.0)
olv4* 1.0 0.948 0.5 (1.0)
cmyn4* 0.0 0.052 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 90.97 0.94 47.59
LAB*LABa 90.97 1.28 43.19
LAB*LABb 75.0 0.21 88.31

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 0.245
lab*nce 0.0 0.5 0.245

relative Inform. Technology (IT)
olv3* 0.75 0.698 0.25 (1.0)
cmyn3* 0.25 0.302 0.75 (0.0)
olv4* 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*LABa 71.63 1.29 43.19
LAB*LABb 50.0 0.21 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 0.245
lab*nce 0.0 0.5 0.245

relative Inform. Technology (IT)
olv3* 0.5 0.448 0.0 (1.0)
cmyn3* 0.5 0.552 1.0 (0.0)
olv4* 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*LABa 52.29 1.29 43.18
LAB*LABb 25.00 0.21 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 0.245
lab*nce 0.0 0.5 0.245

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 0.948 0.5 (1.0)
cmyn4* 0.0 0.052 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 35.19 1.08 22.27
LAB*LABa 35.19 0.65 21.59
LAB*LABb 12.1 0.21 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 0.245
lab*nce 0.0 0.25 0.245

$n^* = 0.50$

relative Inform. Technology (IT)
olv3* 1.0 0.921 0.25 (1.0)
cmyn3* 0.0 0.079 0.25 (0.0)
olv4* 1.0 0.921 0.25 (1.0)
cmyn4* 0.0 0.079 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 88.73 1.62 69.03
LAB*LABa 88.73 1.63 64.78
LAB*LABb 62.5 0.41 88.3

relative CIELAB lab*
lab*lab 0.912 0.022 0.75
lab*tch 0.625 0.75 0.245
lab*nch 0.0 0.75 0.245
relative Natural Colour (NC)
lab*trj 0.912 0.0 0.75
lab*tce 0.625 0.75 0.245
lab*nce 0.0 0.75 0.245

relative Inform. Technology (IT)
olv3* 0.75 0.671 0.0 (1.0)
cmyn3* 0.25 0.329 1.0 (0.0)
olv4* 1.0 0.921 0.25 (1.0)
cmyn4* 0.0 0.079 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 69.38 1.89 67.74
LAB*LABa 69.38 1.93 64.78
LAB*LABb 37.51 0.41 88.29

relative CIELAB lab*
lab*lab 0.663 0.022 0.75
lab*tch 0.375 0.75 0.245
lab*nch 0.0 0.75 0.245
relative Natural Colour (NC)
lab*trj 0.663 0.0 0.75
lab*tce 0.375 0.75 0.245
lab*nce 0.0 0.75 0.245

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 0.921 0.25 (1.0)
cmyn4* 0.0 0.079 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 23.87 0.0 0.0
LAB*LABa 23.87 0.0 0.0
LAB*LABb 25.00 0.21 88.29

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.25 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 0.25 0.0 0.0

$n^* = 0.25$

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 0.0 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

$n^* = 0.00$

Output: Colorimetric Television Luminous System TLS00

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

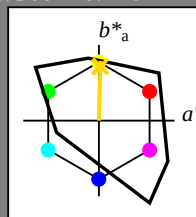
lab^*tch and lab^*nch

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)
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 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 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*LABb 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 0.25 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 0.25 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 56.37 0.13 2.11
LAB*LABa 56.37 0.0 0.0
LAB*LABb 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 0.5 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 0.5 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
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 37.14 0.37 0.82
LAB*LABa 37.14 0.0 0.0
LAB*LABb 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 0.25 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 0.25 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 10.00 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

$n^* = 1.0$

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
RC _{IE}	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 0.913 0.5 (1.0)
cmyn3* 0.0 0.087 0.5 (0.0)
olv4* 1.0 0.913 0.5 (1.0)
cmyn4* 0.0 0.087 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 91.02 0.99 39.59
LAB*LABa 91.02 0.99 39.59
LAB*LABb 75.0 0.21 88.57

relative CIELAB lab*
lab*lab 0.954 0.013 0.5
lab*tch 0.75 0.5 0.246
lab*nch 0.0 0.5 0.246
relative Natural Colour (NC)
lab*trj 0.954 0.0 0.5
lab*tce 0.75 0.5 0.246
lab*nce 0.0 0.5 0.246

relative Inform. Technology (IT)
olv3* 0.75 0.663 0.25 (1.0)
cmyn3* 0.25 0.337 0.75 (0.0)
olv4* 1.0 0.913 0.5 (1.0)
cmyn4* 0.0 0.087 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 69.37 1.0 39.6
LAB*LABa 69.37 1.0 39.6
LAB*LABb 50.0 0.21 88.55

relative CIELAB lab*
lab*lab 0.704 0.013 0.5
lab*tch 0.5 0.5 0.246
lab*nch 0.0 0.5 0.246
relative Natural Colour (NC)
lab*trj 0.704 0.0 0.5
lab*tce 0.5 0.5 0.246
lab*nce 0.0 0.5 0.246

relative Inform. Technology (IT)
olv3* 0.5 0.413 0.0 (1.0)
cmyn3* 0.5 0.587 1.0 (0.0)
olv4* 1.0 0.913 0.5 (1.0)
cmyn4* 0.0 0.087 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 54.33 1.0 39.9
LAB*LABa 54.33 1.0 39.9
LAB*LABb 25.01 0.21 88.55

relative CIELAB lab*
lab*lab 0.454 0.013 0.5
lab*tch 0.25 0.5 0.246
lab*nch 0.0 0.5 0.246
relative Natural Colour (NC)
lab*trj 0.454 0.0 0.5
lab*tce 0.25 0.5 0.246
lab*nce 0.0 0.5 0.246

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 0.913 0.5 (1.0)
cmyn4* 0.0 0.087 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 35.19 1.08 22.27
LAB*LABa 35.19 0.65 21.59
LAB*LABb 12.1 0.21 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 0.245
lab*nce 0.0 0.25 0.245

$n^* = 0.50$

relative Inform. Technology (IT)
olv3* 1.0 0.87 0.25 (1.0)
cmyn3* 0.0 0.13 0.75 (0.0)
olv4* 1.0 0.87 0.25 (1.0)
cmyn4* 0.0 0.13 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 88.83 1.49 59.39
LAB*LABa 88.83 1.49 59.39
LAB*LABb 62.5 0.41 88.57

relative CIELAB lab*
lab*lab 0.87 0.019 0.75
lab*tch 0.625 0.75 0.246
lab*nch 0.0 0.75 0.246
relative Natural Colour (NC)
lab*trj 0.87 0.0 0.75
lab*tce 0.625 0.75 0.246
lab*nce 0.0 0.75 0.246

relative Inform. Technology (IT)
olv3* 0.75 0.62 0.0 (1.0)
cmyn3* 0.25 0.38 1.0 (0.0)
olv4* 1.0 0.87 0.25 (1.0)
cmyn4* 0.0 0.13 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 66.54 2.0 79.18
LAB*LABa 66.54 2.0 79.18
LAB*LABb 50.0 0.21 88.55

relative CIELAB lab*
lab*lab 0.908 0.025 0.999
lab*tch 0.5 1.0 0.246
lab*nch 0.0 1.0 0.246
relative Natural Colour (NC)
lab*trj 0.908 0.0 1.0
lab*tce 0.5 1.0 0.246
lab*nce 0.0 1.0 0.246

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.7

Input: Colorimetric Offset Reflective System ORS18

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

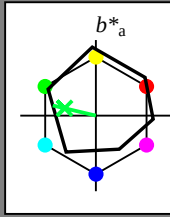
lab^*tch and lab^*nch

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)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	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	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.815	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.75	1.0	0.815	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	84.71	-14.24	3.36	
LAB*LAB	84.71	-14.24	3.36	
LAB*LAB	97.5	14.64	166.74	

relative Inform. Technology (IT)

olv3*	0.5	1.0	0.63	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.5	1.0	0.63	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	73.97	-28.49	6.72	
LAB*LAB	73.97	-28.49	6.72	
LAB*LAB	75.0	29.28	166.74	

relative Inform. Technology (IT)

olv3*	0.25	1.0	0.444	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.25	1.0	0.444	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	63.22	-42.69	12.63	
LAB*LAB	63.22	-42.69	12.63	
LAB*LAB	62.5	43.92	166.74	

relative Inform. Technology (IT)

olv3*	0.0	1.0	0.259	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	1.0	0.259	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	52.48	-56.79	15.28	
LAB*LAB	52.48	-56.79	15.28	
LAB*LAB	50.0	58.56	166.73	

relative Inform. Technology (IT)

olv3*	0.0	1.0	0.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	1.0	0.0	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	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	0.75	0.75	(1.0)
olv4*	0.25	0.25	0.25	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	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	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.75	0.562	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.5	0.75	0.562	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	65.37	-14.23	6.05	
LAB*LAB	65.37	-14.23	6.05	
LAB*LAB	62.5	14.64	166.73	

relative Inform. Technology (IT)

olv3*	0.25	0.75	0.38	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.25	0.75	0.38	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	54.63	-28.33	8.7	
LAB*LAB	54.63	-28.33	8.7	
LAB*LAB	50.0	29.29	166.73	

relative Inform. Technology (IT)

olv3*	0.0	0.75	0.194	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	0.75	0.194	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	43.89	-42.43	11.35	
LAB*LAB	43.89	-42.43	11.35	
LAB*LAB	37.51	43.93	166.73	

relative Inform. Technology (IT)

olv3*	0.0	0.25	0.086	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	0.25	0.086	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	43.89	-42.43	11.35	
LAB*LAB	43.89	-42.43	11.35	
LAB*LAB	37.51	43.93	166.73	

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	0.0	0.0	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	44.92	-16.76	4.7	
LAB*LAB	44.92	-16.76	4.7	
LAB*LAB	37.5	17.41	164.35	

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
olv4*	0.75	0.75	0.75	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.78	0.13	2.11	
LAB*LAB	56.78	0.13	2.11	
LAB*LAB	50.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.5	0.5	0.5	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	46.03	-13.96	4.76	
LAB*LAB	46.03	-13.96	4.76	
LAB*LAB	37.5	14.64	166.73	

relative Inform. Technology (IT)

olv3*	0.0	0.5	0.13	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	0.5	0.13	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	35.29	-28.06	7.3	
LAB*LAB	35.29	-28.06	7.3	
LAB*LAB	30.0	29.28	166.72	

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	0.0	0.0	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	25.0	0.0	0.0	
LAB*LAB	25.0	0.0	0.0	
LAB*LAB	25.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	0.0	0.0	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	23.87	0.0	0.0	
LAB*LAB	23.87	0.0	0.0	
LAB*LAB	25.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	0.0	0.0	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	21.07	-16.75	4.7	
LAB*LAB	21.07	-16.75	4.7	
LAB*LAB	12.5	17.41	164.34	

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
olv4*	0.75	0.75	0.75	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	0.0	0.0	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	25.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.5	0.5	0.5	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	26.69	-14.24	3.37	
LAB*LAB	26.69	-14.24	3.37	
LAB*LAB	12.5	14.64	166.71	

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	0.0	0.0	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.1	0.0	0.0	
LAB*LAB	18.1	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)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	0.0	0.0	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	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 Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	0.0	0.0	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	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 Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	0.0	0.0	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	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 Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	0.0	0.0	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.1	0.0	0.0	
LAB*LAB	18.1	0.0	0.0	
LAB*LAB	0.0	0.0	0.0	

0,25

