

Input: Colorimetric Offset Reflective System ORS18

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

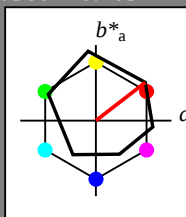
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

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)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	95.41	-0.98	4.75	
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	0.0	1.0	0.0	
lab*lab	0.0	0.0	1.0	
lab*lab	0.0	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	1.0	0.0	0.0	
lab*trj	0.0	1.0	0.0	
lab*trj	0.0	0.0	1.0	
lab*trj	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)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	76.06	-0.61	3.44	
LAB*LAB	76.06	0.0	0.0	
LAB*LAB	75.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.75	0.75	0.75	(1.0)
lab*lab	0.25	0.25	0.25	(0.0)
lab*lab	0.0	0.0	0.0	(0.0)
lab*lab	0.0	0.0	0.0	(0.0)
relative Natural Colour (NC)				
lab*trj	0.75	0.75	0.75	(1.0)
lab*trj	0.25	0.25	0.25	(0.0)
lab*trj	0.0	0.0	0.0	(0.0)
lab*trj	0.0	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)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.24	2.14	
LAB*LAB	56.71	0.0	0.0	
LAB*LAB	55.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.75	0.75	0.75	(1.0)
lab*lab	0.25	0.25	0.25	(0.0)
lab*lab	0.0	0.0	0.0	(0.0)
lab*lab	0.0	0.0	0.0	(0.0)
relative Natural Colour (NC)				
lab*trj	0.75	0.75	0.75	(1.0)
lab*trj	0.25	0.25	0.25	(0.0)
lab*trj	0.0	0.0	0.0	(0.0)
lab*trj	0.0	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)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	37.36	0.13	0.63	
LAB*LAB	37.36	0.0	0.0	
LAB*LAB	35.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.25	0.25	0.25	(1.0)
lab*lab	0.75	0.75	0.75	(0.0)
lab*lab	0.0	0.0	0.0	(0.0)
lab*lab	0.0	0.0	0.0	(0.0)
relative Natural Colour (NC)				
lab*trj	0.25	0.25	0.25	(1.0)
lab*trj	0.75	0.75	0.75	(0.0)
lab*trj	0.0	0.0	0.0	(0.0)
lab*trj	0.0	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)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	0.0	0.47	
LAB*LAB	18.02	0.0	0.0	
LAB*LAB	0.01	0.01	0.0	

relative CIELAB lab*

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

NE540-7, 5 step scales for constant CIELAB hue 38/360 = 0.105 (left)

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)

olv3*	1.0	0.5	0.5	(1.0)
olv3*	0.5	1.0	0.5	(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)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	71.67	32.69	25.25	
LAB*LAB	71.67	0.0	0.0	
LAB*LAB	75.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.693	0.396	0.306	
lab*lab	0.75	0.5	0.105	
lab*lab	0.0	0.5	0.105	
lab*lab	0.0	0.0	0.5	
relative Natural Colour (NC)				
lab*trj	0.693	0.477	0.15	
lab*trj	0.75	0.5	0.105	
lab*trj	0.0	0.5	0.105	
lab*trj	0.0	0.0	0.5	

relative Inform. Technology (IT)

olv3*	0.75	0.25	0.25	(1.0)
olv3*	0.25	0.75	0.25	(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)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	52.33	32.53	27.11	
LAB*LAB	52.33	0.0	0.0	
LAB*LAB	50.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.443	0.396	0.306	
lab*lab	0.5	0.5	0.105	
lab*lab	0.0	0.5	0.105	
lab*lab	0.0	0.0	0.5	
relative Natural Colour (NC)				
lab*trj	0.443	0.477	0.15	
lab*trj	0.5	0.5	0.105	
lab*trj	0.0	0.5	0.105	
lab*trj	0.0	0.0	0.5	

relative Inform. Technology (IT)

olv3*	0.5	0.0	0.0	(1.0)
olv3*	0.0	1.0	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)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	42.98	32.9	37.88	
LAB*LAB	42.98	0.0	0.0	
LAB*LAB	40.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.29	0.593	0.458	
lab*lab	0.375	0.75	0.105	
lab*lab	0.0	0.75	0.105	
lab*lab	0.0	0.0	0.75	
relative Natural Colour (NC)				
lab*trj	0.29	0.716	0.224	
lab*trj	0.375	0.75	0.105	
lab*trj	0.0	0.75	0.105	
lab*trj	0.0	0.0	0.75	

relative Inform. Technology (IT)

olv3*	0.25	0.0	0.0	(1.0)
olv3*	0.0	0.25	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)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	25.01	41.31	37.69	
LAB*LAB	25.01	0.0	0.0	
LAB*LAB	25.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.193	0.396	0.306	
lab*lab	0.25	0.5	0.105	
lab*lab	0.0	0.5	0.105	
lab*lab	0.0	0.0	0.5	
relative Natural Colour (NC)				
lab*trj	0.193	0.477	0.15	
lab*trj	0.25	0.5	0.105	
lab*trj	0.0	0.5	0.105	
lab*trj	0.0	0.0	0.5	

5 step scales for constant CIELAB hue 38/360 = 0.105 (right)

Output: Colorimetric Offset Reflective System ORS18

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

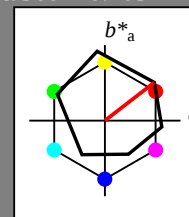
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

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)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	95.41	-0.98	4.75	
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	0.0	1.0	0.0	
lab*lab	0.0	0.0	1.0	
lab*lab	0.0	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	1.0	0.0	0.0	
lab*trj	0.0	1.0	0.0	
lab*trj	0.0	0.0	1.0	
lab*trj	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)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	76.06	-0.61	3.44	
LAB*LAB	76.06	0.0	0.0	
LAB*LAB	75.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.75	0.75	0.75	(1.0)
lab*lab	0.25	0.25	0.25	(0.0)
lab*lab	0.0	0.0	0.0	(0.0)
lab*lab	0.0	0.0	0.0	(0.0)
relative Natural Colour (NC)				
lab*trj	0.75	0.75	0.75	(1.0)
lab*trj	0.25	0.25	0.25	(0.0)
lab*trj	0.0	0.0	0.0	(0.0)
lab*trj	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olv3*	0.75	0.25	0.25	(1.0)
olv3*	0.25	0.75	0.25	(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)</

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 236/360 = 0.656$

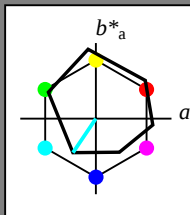
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

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	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (0.0)
olv5* 0.0 0.0 0.0 (0.0)
cmyn3* 0.0 0.0 0.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 -0.98 4.75
LAB*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 0.0

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

relative Inform. Technology (IT)
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 0.75
cmyn3* 0.0 0.0 0.0 0.25
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.06 -0.61 3.44
LAB*LABa 76.06 0.0 0.0
LAB*LABb 75.00 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 0.5 0.5 (0.0)
olv5* 1.0 1.0 1.0 0.5
cmyn3* 0.0 0.0 0.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*LABb 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)
olv4* 0.75 0.75 0.75 (1.0)
olv5* 1.0 1.0 1.0 0.25
cmyn3* 0.0 0.0 0.0 0.25
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 37.36 -0.13 0.63
LAB*LABa 37.36 0.0 0.0
LAB*LABb 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 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
olv5* 1.0 1.0 1.0 (0.0)
cmyn3* 0.0 0.0 0.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.47
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 -

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

$n^* = 1.0$

NE540-7, 5 step scales for constant CIELAB hue 236/360 = 0.656 (left)

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 236/360 = 0.656$

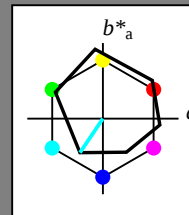
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

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	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
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M _{Ma}	48.13	75.28	-8.36	75.74	354
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R _{CIE}	39.92	58.66	26.98	64.57	25
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%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

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
cmyn3* 0.0 0.0 0.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 95.41 -0.98 4.75
LAB*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 0.0

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

relative Inform. Technology (IT)
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 0.75
cmyn3* 0.0 0.0 0.0 0.25
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.06 -0.61 3.44
LAB*LABa 76.06 0.0 0.0
LAB*LABb 75.00 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 0.5 0.5 (0.0)
olv5* 1.0 1.0 1.0 0.5
cmyn3* 0.0 0.0 0.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*LABb 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)
olv4* 0.75 0.75 0.75 (1.0)
olv5* 1.0 1.0 1.0 0.25
cmyn3* 0.0 0.0 0.0 0.25
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 37.36 -0.13 0.63
LAB*LABa 37.36 0.0 0.0
LAB*LABb 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 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
olv5* 1.0 1.0 1.0 (0.0)
cmyn3* 0.0 0.0 0.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.47
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 -

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

$n^* = 1.0$

5 step scales for constant CIELAB hue 236/360 = 0.656 (right)

BAM-test chart NE54; Colorimetric systems ORS18 & ORS18

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

input: $olv^* setrgbcolor$

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

Input: Colorimetric Offset Reflective System ORS18

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

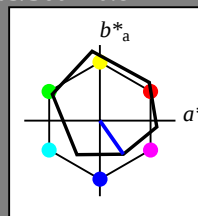
lab^*tch and lab^*nch

D65: 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	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)	
olv3*	0.75 0.75 1.0 (1.0)
olv4*	0.0 0.0 0.0 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	95.41 -0.98 4.75
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*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*	0.75 0.75 1.0 (1.0)
olv4*	0.0 0.0 0.0 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	76.06 -0.61 3.44
LAB*LAB	76.06 0.0 0.0
LAB*LAB	75.00 0.01 0.0

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

relative Inform. Technology (IT)	
olv3*	0.75 0.75 1.0 (1.0)
olv4*	0.0 0.0 0.0 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	56.71 -0.24 2.14
LAB*LAB	56.71 0.0 0.0
LAB*LAB	55.00 0.01 0.0

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

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.5 (0.5)
olv4*	0.0 0.0 0.0 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	37.36 -0.13 0.63
LAB*LAB	37.36 0.0 0.0
LAB*LAB	35.00 0.01 0.0

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

relative Inform. Technology (IT)	
olv3*	0.0 0.0 0.0 (0.0)
olv4*	0.0 0.0 0.0 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	18.02 0.0 0.0
LAB*LAB	18.02 0.0 0.0
LAB*LAB	0.01 0.01 0.0

relative CIELAB lab*	
lab*lab	0.0 0.0 0.0
lab*tch	0.0 0.0 0.0
lab*nch	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)
olv4*	0.0 0.0 0.0 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
olv6*	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*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)
olv4*	0.0 0.0 0.0 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
olv6*	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*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)
olv4*	0.0 0.0 0.0 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
olv6*	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*tce	0.0 0.0 0.0
lab*nce	0.0 0.0 0.0

relative Inform. Technology (IT)	
olv3*	0.75 0.75 1.0 (1.0)
olv4*	0.0 0.0 0.0 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	77.99 7.12 -7.51
LAB*LAB	77.99 7.77 -11.09
LAB*LAB	87.5 13.55 305.0

relative CIELAB lab*	
lab*lab	0.75 0.143 -0.204
lab*tch	0.875 0.25 0.847
lab*nch	0.0 0.25 0.847
relative Natural Colour (NC)	
lab*trj	0.775 0.112 -0.222
lab*tce	0.875 0.25 0.824
lab*nce	0.0 0.25 0.824

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.5 (0.5)
olv4*	0.0 0.0 0.0 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	60.56 15.23 -19.79
LAB*LAB	60.56 15.55 -22.19
LAB*LAB	75.0 27.1 305.0

relative CIELAB lab*	
lab*lab	0.55 0.287 -0.408
lab*tch	0.75 0.5 0.847
lab*nch	0.0 0.5 0.847
relative Natural Colour (NC)	
lab*trj	0.55 0.225 -0.446
lab*tce	0.75 0.5 0.824
lab*nce	0.0 0.5 0.824

relative Inform. Technology (IT)	
olv3*	0.0 0.0 0.0 (0.0)
olv4*	0.0 0.0 0.0 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	43.14 23.34 -32.07
LAB*LAB	43.14 23.32 -33.29
LAB*LAB	62.5 40.66 305.0

relative CIELAB lab*	
lab*lab	0.32 0.43 -0.613
lab*tch	0.625 0.75 0.847
lab*nch	0.0 0.75 0.847
relative Natural Colour (NC)	
lab*trj	0.325 0.337 -0.669
lab*tce	0.625 0.75 0.824
lab*nce	0.0 0.75 0.824

relative Inform. Technology (IT)	
olv3*	0.0 0.0 0.0 (0.0)
olv4*	0.0 0.0 0.0 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	25.73 31.09 -44.38
LAB*LAB	25.73 31.09 -44.38
LAB*LAB	50.0 54.21 305.0

relative CIELAB lab*	
lab*lab	0.1 0.573 -0.818
lab*tch	0.5 0.5 0.847
lab*nch	0.0 0.5 0.847
relative Natural Colour (NC)	
lab*trj	0.1 0.449 -0.892
lab*tce	0.5 0.5 0.824
lab*nce	0.0 0.5 0.824

relative Inform. Technology (IT)	
olv3*	0.0 0.0 0.0 (0.0)
olv4*	0.0 0.0 0.0 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	23.8 23.71 -33.37
LAB*LAB	23.8 23.32 -33.29
LAB*LAB	37.51 40.66 305.0

relative CIELAB lab*	
lab*lab	0.075 0.43 -0.613
lab*tch	0.375 0.75 0.847
lab*nch	0.0 0.75 0.847
relative Natural Colour (NC)	
lab*trj	0.075 0.337 -0.669
lab*tce	0.375 0.75 0.824
lab*nce	0.0 0.75 0.824

relative Inform. Technology (IT)	
olv3*	0.0 0.0 0.0 (0.0)
olv4*	0.0 0.0 0.0 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	21.87 15.57 -22.19
LAB*LAB	21.87 15.55 -22.19
LAB*LAB	25.01 27.1 305.0

relative CIELAB lab*	
lab*lab	0.05 0.287 -0.408
lab*tch	0.25 0.5 0.847
lab*nch	0.0 0.5 0.847
relative Natural Colour (NC)	
lab*trj	0.05 0.225 -0.446
lab*tce	0.25 0.5 0.824
lab*nce	0.0 0.5 0.824

relative Inform. Technology (IT)	
olv3*	0.0 0.0 0.0 (0.0)
olv4*	0.0 0.0 0.0 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	19.94 7.77 -11.09
LAB*LAB	19.94 7.77 -11.09
LAB*LAB	12.5 13.55 305.0

relative CIELAB lab*	
lab*lab	0.025 0.143 -0.204
lab*tch	0.125 0.25 0.847
lab*nch	0.0 0.25 0.847
relative Natural Colour (NC)	
lab*trj	0.025 0.112 -0.222
lab*tce	0.125 0.25 0.824
lab*nce	0.0 0.25 0.824

relative Inform. Technology (IT)	
olv3*	0.0 0.0 0.0 (0.0)
olv4*	0.0 0.0 0.0 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	18.02 0.0 0.0
LAB*LAB	18.02 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*tce	0.0 0.0 0.0
lab*nce	0.0 0.0 0.0

Output: Colorimetric Offset Reflective System ORS18

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

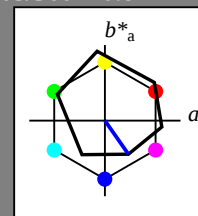
lab^*tch and lab^*nch

D65: 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	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)	
olv3*	1.0 1.0 1.0 (1.0)
olv4*	0.0 0.0 0.0 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	95.41 -0.98 4.75
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*tch	0.0 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 1.0 (1.0)
olv4*	0.0 0.0 0.0 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
olv6*	0.0 0.0 0.0 (0.0)

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 354/360 = 0.982$

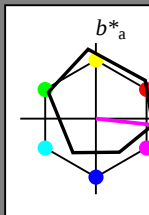
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

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	-0.98	4.75	
LAB*LAB	95.41	0.0	0.0	
LAB*LAB	95.41	0.0	0.0	

relative CIELAB lab*

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

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(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	76.06	-0.61	3.44	
LAB*LAB	76.06	0.0	0.0	
LAB*LAB	76.06	0.0	0.0	

relative CIELAB lab*

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

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(0.0)
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	56.71	-0.24	2.14	
LAB*LAB	56.71	0.0	0.0	
LAB*LAB	56.71	0.0	0.0	

relative CIELAB lab*

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

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(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	37.36	0.13	0.63	
LAB*LAB	37.36	0.0	0.0	
LAB*LAB	37.36	0.0	0.0	

relative CIELAB lab*

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

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(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	18.02	0.0	0.47	
LAB*LAB	18.02	0.0	0.0	
LAB*LAB	18.02	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*	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	0.01	0.01	0.01	
LAB*LAB	0.01	0.01	0.01	
LAB*LAB	0.01	0.01	0.01	

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	

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)

olv3*	1.0	0.5	1.0	(1.0)
olv3*	0.0	0.5	0.0	(0.0)
olv4*	1.0	0.5	1.0	(1.0)
olv4*	0.0	0.5	0.0	(0.0)
olv5*	1.0	0.5	1.0	(1.0)
olv5*	0.0	0.5	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	71.77	37.63	-1.01	
LAB*LAB	71.77	37.63	-1.01	
LAB*LAB	71.77	37.63	-1.01	

relative CIELAB lab*

lab*lab	0.695	0.497	-0.054	
lab*lab	0.75	0.0	0.0	
lab*lab	0.0	0.75	0.0	
lab*lab	0.0	0.0	0.75	
relative Natural Colour (NC)				
lab*lab	0.695	0.497	-0.054	
lab*lab	0.75	0.0	0.0	
lab*lab	0.0	0.75	0.0	

relative Inform. Technology (IT)

olv3*	0.75	0.25	0.75	(1.0)
olv3*	0.0	0.25	0.0	(0.0)
olv4*	1.0	0.5	1.0	(1.0)
olv4*	0.0	0.5	0.0	(0.0)
olv5*	1.0	0.5	1.0	(1.0)
olv5*	0.0	0.5	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	52.42	37.64	-1.17	
LAB*LAB	52.42	37.64	-1.17	
LAB*LAB	52.42	37.64	-1.17	

relative CIELAB lab*

lab*lab	0.445	0.454	-0.208	
lab*lab	0.75	0.0	0.0	
lab*lab	0.0	0.75	0.0	
lab*lab	0.0	0.0	0.75	
relative Natural Colour (NC)				
lab*lab	0.445	0.454	-0.208	
lab*lab	0.75	0.0	0.0	
lab*lab	0.0	0.75	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.0	0.5	(0.0)
olv3*	0.0	0.5	0.0	(0.0)
olv4*	1.0	0.5	1.0	(1.0)
olv4*	0.0	0.5	0.0	(0.0)
olv5*	1.0	0.5	1.0	(1.0)
olv5*	0.0	0.5	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	33.07	37.63	-1.17	
LAB*LAB	33.07	37.63	-1.17	
LAB*LAB	33.07	37.63	-1.17	

relative CIELAB lab*

lab*lab	0.195	0.497	-0.054	
lab*lab	0.25	0.0	0.0	
lab*lab	0.0	0.25	0.0	
lab*lab	0.0	0.0	0.25	
relative Natural Colour (NC)				
lab*lab	0.195	0.497	-0.054	
lab*lab	0.25	0.0	0.0	
lab*lab	0.0	0.25	0.0	

relative Inform. Technology (IT)

olv3*	0.25	0.0	0.25	(1.0)
olv3*	0.0	0.25	0.0	(0.0)
olv4*	1.0	0.5	1.0	(1.0)
olv4*	0.0	0.5	0.0	(0.0)
olv5*	1.0	0.5	1.0	(1.0)
olv5*	0.0	0.5	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	25.54	18.81	-2.08	
LAB*LAB	25.54	18.81	-2.08	
LAB*LAB	25.54	18.81	-2.08	

relative CIELAB lab*

lab*lab	0.097	0.248	-0.027	
lab*lab	0.125	0.0	0.0	
lab*lab	0.0	0.125	0.0	
lab*lab	0.0	0.0	0.125	
relative Natural Colour (NC)				
lab*lab	0.097	0.248	-0.027	
lab*lab	0.125	0.0	0.0	
lab*lab	0.0	0.125	0.0	

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(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	18.02	0.0	0.47	
LAB*LAB	18.02	0.0	0.0	
LAB*LAB	18.02	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	

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 354/360 = 0.982$

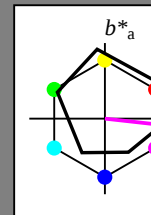
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

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	-0.98	4.75	
LAB*LAB	95.41	0.0	0.0	
LAB*LAB	95.41	0.0	0.0	

relative CIELAB lab*

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

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	0.75
cmyn4*	0.0	0.0	0.0	0.25
standard and adapted CIELAB				
LAB*LAB	76.06	-0.61	3.44	

Input: Colorimetric Offset Reflective System ORS18

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

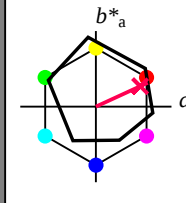
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

olv*Ma: 1.0 0.0 0.32

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

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	95.41	-0.98	4.75	
LAB*LAB	95.41	0.0	0.0	
LAB*LAB	95.41	0.0	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	83.55	16.38	11.84	
LAB*LAB	83.55	17.14	7.88	
LAB*LAB	83.55	18.86	24.69	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	71.7	33.75	18.92	
LAB*LAB	71.7	34.28	15.76	
LAB*LAB	71.7	37.73	24.7	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	59.85	51.12	26.01	
LAB*LAB	59.85	51.42	23.65	
LAB*LAB	59.85	56.6	24.7	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	48.0	68.48	33.09	
LAB*LAB	48.0	68.56	31.53	
LAB*LAB	48.0	75.47	24.7	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	33.01	34.49	15.76	
LAB*LAB	33.01	34.49	15.76	
LAB*LAB	33.01	37.73	24.7	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	76.06	-0.61	3.44	
LAB*LAB	76.06	0.0	0.0	
LAB*LAB	76.06	0.0	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	64.21	16.75	10.54	
LAB*LAB	64.21	17.14	7.88	
LAB*LAB	64.21	18.87	24.7	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	52.36	34.13	17.62	
LAB*LAB	52.36	34.29	15.77	
LAB*LAB	52.36	37.74	24.7	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	48.0	68.48	33.09	
LAB*LAB	48.0	68.56	31.53	
LAB*LAB	48.0	75.47	24.7	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	33.01	34.49	15.76	
LAB*LAB	33.01	34.49	15.76	
LAB*LAB	33.01	37.73	24.7	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	
LAB*LAB	18.02	18.02	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.24	2.14	
LAB*LAB	56.71	0.0	0.0	
LAB*LAB	56.71	0.0	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	44.86	13.13	9.23	
LAB*LAB	44.86	13.13	9.23	
LAB*LAB	44.86	17.14	7.88	

relative CIELAB lab*			
lab*lab	0.694	0.454	0.200
lab*tch	0.75	0.5	0.06
lab*nch	0.0	0.5	0.06
relative Natural Colour (NC)			
lab*lrj	0.694	0.5	0.0
lab*tce	0.75	0.5	1.0
lab*nce	0.0	0.5	0.99

Input: Colorimetric Offset Reflective System ORS18

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

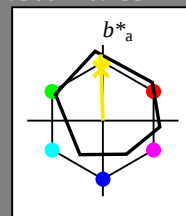
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 86 88 92

olv*Ma: 1.0 0.9 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	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

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	95.41	-0.98	47.5		
LAB*LAB	95.41	0.0	0.0		
LAB*LAB	99.99	0.01	0.0		

relative Inform. Technology (IT)					
olv3*	1.0	0.975	0.75	(1.0)	
olv3*	0.0	0.025	0.25	(0.0)	
olv4*	1.0	0.975	0.75	(1.0)	
olv4*	0.0	0.025	0.25	(0.0)	
olv4*	0.0	0.025	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	93.1	-1.64	26.52		
LAB*LAB	93.1	-0.7	21.92		
LAB*LAB	97.5	21.93	91.85		

relative Inform. Technology (IT)					
olv3*	1.0	0.951	0.5	(1.0)	
olv3*	0.0	0.049	0.5	(0.0)	
olv4*	1.0	0.951	0.5	(1.0)	
olv4*	0.0	0.049	0.5	(0.0)	
olv4*	0.0	0.049	0.5	(0.0)	
standard and adapted CIELAB					
LAB*LAB	90.8	-2.3	48.29		
LAB*LAB	90.8	-1.4	43.84		
LAB*LAB	75.0	43.86	91.85		

relative Inform. Technology (IT)					
olv3*	1.0	0.926	0.25	(1.0)	
olv3*	0.0	0.074	0.25	(0.0)	
olv4*	1.0	0.926	0.25	(1.0)	
olv4*	0.0	0.074	0.25	(0.0)	
olv4*	0.0	0.074	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	88.49	-2.96	70.05		
LAB*LAB	88.49	-1.1	65.76		
LAB*LAB	62.5	65.79	91.84		

relative Inform. Technology (IT)					
olv3*	1.0	0.901	0.0	(1.0)	
olv3*	0.0	0.099	1.0	(0.0)	
olv4*	1.0	0.901	0.0	(1.0)	
olv4*	0.0	0.099	1.0	(0.0)	
olv4*	0.0	0.099	1.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	86.19	-3.62	91.81		
LAB*LAB	86.19	-2.81	87.67		
LAB*LAB	50.0	87.72	91.84		

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)	
olv4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	56.71	-0.24	21.4		
LAB*LAB	56.71	-1.4	43.84		
LAB*LAB	50.0	0.01	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)	
olv4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	54.4	-0.89	23.91		
LAB*LAB	54.4	-0.89	21.92		
LAB*LAB	37.5	21.93	91.84		

relative Inform. Technology (IT)					
olv3*	0.5	0.451	0.0	(1.0)	
olv3*	0.5	0.451	0.0	(1.0)	
olv4*	1.0	0.975	0.75	(1.0)	
olv4*	0.0	0.025	0.25	(0.0)	
olv4*	0.0	0.025	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	54.4	-0.89	23.91		
LAB*LAB	54.4	-0.89	21.92		
LAB*LAB	37.5	21.93	91.84		

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)	
olv4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	52.1	-1.45	43.87		
LAB*LAB	52.1	-1.39	43.83		
LAB*LAB	25.01	43.86	91.84		

relative Inform. Technology (IT)					
olv3*	0.5	0.451	0.0	(1.0)	
olv3*	0.5	0.451	0.0	(1.0)	
olv4*	1.0	0.975	0.75	(1.0)	
olv4*	0.0	0.025	0.25	(0.0)	
olv4*	0.0	0.025	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	54.4	-0.89	23.91		
LAB*LAB	54.4	-0.89	21.92		
LAB*LAB	37.5	21.93	91.84		

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)	
olv4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	0.13	0.63		
LAB*LAB	37.36	0.0	0.0		
LAB*LAB	25.0	0.01	0.0		

relative Inform. Technology (IT)					
olv3*	0.47	-0.007	0.25		
olv3*	0.47	-0.007	0.25		
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	54.4	-0.89	23.91		
LAB*LAB	54.4	-0.89	21.92		
LAB*LAB	37.5	21.93	91.84		

relative Inform. Technology (IT)					
olv3*	0.5	0.451	0.0	(1.0)	
olv3*	0.5	0.451	0.0	(1.0)	
olv4*	1.0	0.975	0.75	(1.0)	
olv4*	0.0	0.025	0.25	(0.0)	
olv4*	0.0	0.025	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	52.1	-1.45	43.87		
LAB*LAB	52.1	-1.39	43.83		
LAB*LAB	25.01	43.86	91.84		

relative Inform. Technology (IT)					
olv3*	0.661	-0.023	0.75		
olv3*	0.661	-0.023	0.75		
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	69.14	-2.58	68.74		
LAB*LAB	69.14	-2.1	65.76		
LAB*LAB	37.51	65.79	91.84		

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)	
olv4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	37.36	0.13	0.63		
LAB*LAB	37.36	0.0	0.0		
LAB*LAB	25.0	0.01	0.0		

relative Inform. Technology (IT)					
olv3*	0.5	0.451	0.0	(1.0)	
olv3*	0.5	0.451	0.0	(1.0)	
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	52.1	-1.45	43.87		
LAB*LAB	52.1	-1.39	43.83		
LAB*LAB	25.01	43.86	91.84		

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)	
olv4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	52.1	-1.45	43.87		
LAB*LAB	52.1	-1.39	43.83		
LAB*LAB	25.01	43.86	91.84		

relative Inform. Technology (IT)					
olv3*	0.5	0.451	0.0	(1.0)	
olv3*	0.5	0.451	0.0	(1.0)	
olv4*	1.0	0.975	0.75	(1.0)	
olv4*	0.0	0.025	0.25	(0.0)	
olv4*	0.0	0.025	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	54.4	-0.89	23.91		
LAB*LAB	54.4	-0.89	21.92		
LAB*LAB	37.5	21.93	91.84		

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)	
olv4*	0.0	0.0	0.0	(0.0)	
standard and adapted CIELAB					
LAB*LAB	52.1	-1.45	43.87		
LAB*LAB	52.1	-1.39	43.83		
LAB*LAB	25.01	43.86	91.84		

relative Inform. Technology (IT)					
olv3*	0.5	0.451	0.0	(1.0)	
olv3*	0.5	0.451	0.0	(1.0)	
olv4*	1.0	0.975	0.75	(1.0)	
olv4*	0.0	0.025	0.25	(0.0)	
olv4*	0.0	0.025	0.25	(0.0)	
standard and adapted CIELAB					
LAB*LAB	54.4	-0.89	23.91		
LAB*LAB	54.4	-0.89	21.92		
LAB*LAB	37.5	21.93	91.84		

relative Inform. Technology (IT)				
olv3*	0.0	0.0	0.0	(1.0)
cmv3*	1.0	1.0	1.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmv4*	0.0	0.0	0.0	1.0
standard and accepted CIELAB				
LAB*LAB	18.02	0.5	0.47	
LAB*LABa	18.02	0.0	0.0	
LAB*TCa	0.01	0.01	-	
relative CIELAB lab*				
lab*lab	0.0	0.0	0.0	0.0
lab*tc	0.0	0.0	-	-
lab*nch	1.0	0.0	-	-
relative Natural Colour (NC)				
lab*ncr	0.0	0.0	0.0	0.0
lab*tc	0.0	0.0	-	-
lab*ncE	1.0	0.0	-	-

Input: Colorimetric Offset Reflective System ORS18

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

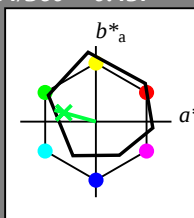
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

olv*Ma: 0.0 1.0 0.25

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	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

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 -0.98 4.75
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*trj 1.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.06 -0.61 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.75 0.0 0.0
lab*trj 0.75 0.0 0.0
lab*nce 0.75 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 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCHa 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*trj 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 (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 37.36 -0.13 0.63
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.25 0.0 0.0
lab*trj 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 18.02 0.0 0.47
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*trj 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 1.0$

relative Inform. Technology (IT)
olv3* 0.75 1.0 0.812 (1.0)
cmyn3* 0.25 0.0 0.388 (0.0)
olv4* 0.75 1.0 0.812 (1.0)
cmyn4* 0.25 0.0 0.188 (0.0)
standard and adapted CIELAB
LAB*LAB 84.75 -14.48 7.85
LAB*LABa 84.75 -13.69 3.81
LAB*TCHa 87.5 14.23 164.46

relative CIELAB lab*
lab*lab 0.862 -0.24 0.067
lab*ch 0.875 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*lrj 0.862 -0.249 0.0
lab*trj 0.875 0.25 0.457
lab*nce 0.0 0.25 0.457

relative Inform. Technology (IT)
olv3* 0.5 0.75 0.588 (1.0)
cmyn3* 0.25 0.0 0.388 (0.0)
olv4* 0.75 1.0 0.812 (1.0)
cmyn4* 0.25 0.0 0.188 (0.0)
standard and adapted CIELAB
LAB*LAB 65.41 -14.11 6.35
LAB*LABa 65.41 -13.7 3.81
LAB*TCHa 62.5 14.23 164.45

relative CIELAB lab*
lab*lab 0.612 -0.249 0.0
lab*ch 0.625 0.25 0.3
lab*nch 0.0 0.25 0.398
relative Natural Colour (NC)
lab*lrj 0.612 -0.249 0.0
lab*trj 0.625 0.25 0.3
lab*nce 0.0 0.25 0.398

relative Inform. Technology (IT)
olv3* 0.25 0.5 0.438 (1.0)
cmyn3* 0.75 0.5 0.688 (0.0)
olv4* 0.75 1.0 0.812 (1.0)
cmyn4* 0.25 0.0 0.188 (0.0)
standard and adapted CIELAB
LAB*LAB 46.06 -13.74 2.24
LAB*LABa 46.06 -13.7 3.81
LAB*TCHa 37.5 14.23 164.45

relative CIELAB lab*
lab*lab 0.362 -0.24 0.067
lab*ch 0.375 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*lrj 0.362 -0.249 0.0
lab*trj 0.375 0.25 0.457
lab*nce 0.0 0.25 0.457

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.125 (1.0)
cmyn3* 1.0 0.5 0.875 (0.0)
olv4* 0.75 1.0 0.812 (1.0)
cmyn4* 0.25 0.0 0.375 (0.0)
standard and adapted CIELAB
LAB*LAB 35.41 -27.24 7.63
LAB*LABa 35.41 -27.4 7.63
LAB*TCHa 25.01 28.46 164.44

relative CIELAB lab*
lab*lab 0.225 -0.481 0.134
lab*ch 0.225 0.5 0.457
lab*nch 0.0 0.5 0.457
relative Natural Colour (NC)
lab*lrj 0.225 -0.499 0.0
lab*trj 0.225 0.5 0.457
lab*nce 0.0 0.5 0.457

relative Inform. Technology (IT)
olv3* 0.112 -0.24 0.067
cmyn3* 1.0 0.75 0.938 (0.0)
olv4* 0.75 1.0 0.812 (1.0)
cmyn4* 0.25 0.0 0.188 (0.0)
standard and adapted CIELAB
LAB*LAB 26.71 -13.7 3.82
LAB*LABa 26.71 -13.7 3.82
LAB*TCHa 12.5 14.23 164.43

relative CIELAB lab*
lab*lab 0.112 -0.24 0.067
lab*ch 0.125 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*lrj 0.112 -0.249 0.0
lab*trj 0.125 0.25 0.457
lab*nce 0.0 0.25 0.457

relative Inform. Technology (IT)
olv3* 0.5 1.0 0.623 (1.0)
cmyn3* 0.5 0.0 0.377 (0.0)
olv4* 0.5 1.0 0.623 (1.0)
cmyn4* 0.5 0.0 0.377 (0.0)
standard and adapted CIELAB
LAB*LAB 74.1 -27.98 10.94
LAB*LABa 74.1 -27.4 7.62
LAB*TCHa 75.0 28.45 164.46

relative CIELAB lab*
lab*lab 0.725 -0.481 0.134
lab*ch 0.725 0.5 0.457
lab*nch 0.0 0.5 0.457
relative Natural Colour (NC)
lab*lrj 0.725 -0.499 0.0
lab*trj 0.725 0.5 0.457
lab*nce 0.0 0.5 0.457

relative Inform. Technology (IT)
olv3* 0.25 1.0 0.435 (1.0)
cmyn3* 0.75 0.5 0.565 (0.0)
olv4* 0.25 1.0 0.435 (1.0)
cmyn4* 0.75 0.0 0.565 (0.0)
standard and adapted CIELAB
LAB*LAB 63.45 -41.48 14.04
LAB*LABa 63.45 -41.11 11.44
LAB*TCHa 62.5 42.68 164.45

relative CIELAB lab*
lab*lab 0.587 -0.721 0.201
lab*ch 0.625 0.75 0.457
lab*nch 0.0 0.75 0.457
relative Natural Colour (NC)
lab*lrj 0.587 -0.749 0.0
lab*trj 0.625 0.75 0.5
lab*nce 0.0 0.75 0.457

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.188 (1.0)
cmyn3* 1.0 0.25 0.812 (0.0)
olv4* 0.25 1.0 0.435 (1.0)
cmyn4* 0.75 0.0 0.565 (0.0)
standard and adapted CIELAB
LAB*LAB 44.11 -41.11 12.74
LAB*LABa 44.11 -41.11 11.45
LAB*TCHa 37.51 42.69 164.45

relative CIELAB lab*
lab*lab 0.337 -0.721 0.201
lab*ch 0.375 0.75 0.457
lab*nch 0.0 0.75 0.457
relative Natural Colour (NC)
lab*lrj 0.337 -0.749 0.0
lab*trj 0.375 0.75 0.457
lab*nce 0.0 0.75 0.457

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.125 (1.0)
cmyn3* 1.0 0.5 0.875 (0.0)
olv4* 0.25 1.0 0.435 (1.0)
cmyn4* 0.75 0.0 0.565 (0.0)
standard and adapted CIELAB
LAB*LAB 35.41 -27.24 7.63
LAB*LABa 35.41 -27.4 7.63
LAB*TCHa 25.01 28.46 164.44

relative CIELAB lab*
lab*lab 0.225 -0.481 0.134
lab*ch 0.225 0.5 0.457
lab*nch 0.0 0.5 0.457
relative Natural Colour (NC)
lab*lrj 0.225 -0.499 0.0
lab*trj 0.225 0.5 0.457
lab*nce 0.0 0.5 0.457

relative Inform. Technology (IT)
olv3* 0.112 -0.24 0.067
cmyn3* 1.0 0.75 0.938 (0.0)
olv4* 0.75 1.0 0.812 (1.0)
cmyn4* 0.25 0.0 0.188 (0.0)
standard and adapted CIELAB
LAB*LAB 26.71 -13.7 3.82
LAB*LABa 26.71 -13.7 3.82
LAB*TCHa 12.5 14.23 164.43

relative CIELAB lab*
lab*lab 0.112 -0.24 0.067
lab*ch 0.125 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*lrj 0.112 -0.249 0.0
lab*trj 0.125 0.25 0.457
lab*nce 0.0 0.25 0.457

relative Inform. Technology (IT)
olv3* 0.25 0.5 0.125 (1.0)
cmyn3* 1.0 0.25 0.812 (0.0)
olv4* 0.25 1.0 0.435 (1.0)
cmyn4* 0.75 0.0 0.565 (0.0)
standard and adapted CIELAB
LAB*LAB 35.41 -27.24 7.63
LAB*LABa 35.41 -27.4 7.63
LAB*TCHa 25.01 28.46 164.44

relative CIELAB lab*
lab*lab 0.337 -0.721 0.201
lab*ch 0.375 0.75 0.457
lab*nch 0.0 0.75 0.457
relative Natural Colour (NC)
lab*lrj 0.337 -0.749 0.0
lab*trj 0.375 0.75 0.457
lab*nce 0.0 0.75 0.457

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.062 (1.0)
cmyn3* 1.0 0.0 0.246 (1.0)
olv4* 0.0 1.0 0.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 52.8 -54.81 15.26
LAB*LABa 52.8 -54.81 15.26
LAB*TCHa 50.0 56.91 164.45

relative CIELAB lab*
lab*lab 0.45 -0.962 0.268
lab*ch 0.5 0.0 0.457
lab*nch 0.0 0.0 0.457
relative Natural Colour (NC)
lab*lrj 0.45 -0.999 0.0
lab*trj 0.5 0.0 0.457
lab*nce 0.0 0.0 0.457

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
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 18.02 0.0 0.47
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*trj 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 18.02 0.0 0.47
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*trj 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 18.02 0.0 0.47
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*trj 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 95.41 -0.98 4.75
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*trj 1.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.06 -0.61 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.862 -0.24 0.067
lab*ch 0.875 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*lrj 0.862 -0.249 0.0
lab*trj 0.875 0.25 0.457
lab*nce 0.0 0.25 0.457

relative Inform. Technology (IT)
olv3* 0.5 0.75 0.588 (1.0)
cmyn3* 0.25 0.0 0.388 (0.0)
olv4* 0.75 1.0 0.812 (1.0)
cmyn4* 0.25 0.0 0.188 (0.0)
standard and adapted CIELAB
LAB*LAB 65.41 -14.11 6.35
LAB*LABa 65.41 -13.7 3.81
LAB*TCHa 62.5 14.23 164.45

relative CIELAB lab*
lab*lab 0.612 -0.249 0.0
lab*ch 0.625 0.25 0.3
lab*nch 0.0 0.25 0.398
relative Natural Colour (NC)
lab*lrj 0.612 -0.249 0.0
lab*trj 0.625 0.25 0.3
lab*nce 0.0 0.25 0.398

relative Inform. Technology (IT)
olv3* 0.25 0.5 0.438 (1.0)
cmyn3* 0.75 0.5 0.688 (0.0)
olv4* 0.75 1.0 0.812 (1.0)
cmyn4* 0.25 0.0 0.188 (0.0)
standard and adapted CIELAB
LAB*LAB 46.06 -13.74 2.24
LAB*LABa 46.06 -13.7 3.81
LAB*TCHa 37.5 14.23 164.45

relative CIELAB lab*
lab*lab 0.362 -0.24 0.067
lab*ch 0.375 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*lrj 0.362 -0.249 0.0
lab*trj 0.375 0.25 0.457
lab*nce 0.0 0.25 0.457

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.188 (1.0)
cmyn3* 1.0 0.25 0.812 (0.0)
olv4* 0.25 1.0 0.435 (1.0)
cmyn4* 0.75 0.0 0.565 (0.0)
standard and adapted CIELAB
LAB*LAB 44.11 -41.11 12.74
LAB*LABa 44.11 -41.11 11.45
LAB*TCHa 37.51 42.69 164.45

relative CIELAB lab*
lab*lab 0.337 -0.721 0.201
lab*ch 0.375 0.75 0.457
lab*nch 0.0 0.75 0.457
relative Natural Colour (NC)
lab*lrj 0.337 -0.749 0.0
lab*trj 0.375 0.75 0.457
lab*nce 0.0 0.75 0.457

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 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCHa 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*trj 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 (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 37.36 -0.13 0.63
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.25 0.0 0.0
lab*trj 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 18.02 0.0 0.47
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*trj 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)
cmyn

Input: Colorimetric Offset Reflective System ORS18

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

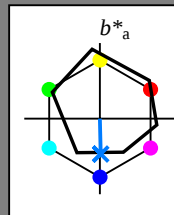
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

olv*Ma: 0.0 0.49 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi3*	0.0	0.0	0.0	(0.0)
olvi4*	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)
olvi5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	95.41	-0.98	4.75	
LAB*LAB	95.41	0.0	0.0	
LAB*LAB	99.99	0.01	0.0	

relative Inform. Technology (IT)

olvi3*	0.75	0.872	1.0	(1.0)
olvi3*	0.25	0.128	0.0	(0.0)
olvi4*	0.75	0.872	1.0	(1.0)
olvi4*	0.25	0.128	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	82.0	-0.45	-7.31	
LAB*LAB	82.0	0.27	-11.16	
LAB*LAB	97.5	11.18	271.39	

relative Inform. Technology (IT)

olvi3*	0.75	0.872	1.0	(1.0)
olvi3*	0.25	0.128	0.0	(0.0)
olvi4*	0.75	0.872	1.0	(1.0)
olvi4*	0.25	0.128	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	82.0	-0.45	-7.31	
LAB*LAB	82.0	0.27	-11.16	
LAB*LAB	97.5	11.18	271.39	

relative Inform. Technology (IT)

olvi3*	0.75	0.872	1.0	(1.0)
olvi3*	0.25	0.128	0.0	(0.0)
olvi4*	0.75	0.872	1.0	(1.0)
olvi4*	0.25	0.128	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	82.0	-0.45	-7.31	
LAB*LAB	82.0	0.27	-11.16	
LAB*LAB	97.5	11.18	271.39	

relative Inform. Technology (IT)

olvi3*	0.75	0.872	1.0	(1.0)
olvi3*	0.25	0.128	0.0	(0.0)
olvi4*	0.75	0.872	1.0	(1.0)
olvi4*	0.25	0.128	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	82.0	-0.45	-7.31	
LAB*LAB	82.0	0.27	-11.16	
LAB*LAB	97.5	11.18	271.39	

relative Inform. Technology (IT)

olvi3*	0.75	0.872	1.0	(1.0)
olvi3*	0.25	0.128	0.0	(0.0)
olvi4*	0.75	0.872	1.0	(1.0)
olvi4*	0.25	0.128	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	82.0	-0.45	-7.31	
LAB*LAB	82.0	0.27	-11.16	
LAB*LAB	97.5	11.18	271.39	

relative Inform. Technology (IT)

olvi3*	0.75	0.872	1.0	(1.0)
olvi3*	0.25	0.128	0.0	(0.0)
olvi4*	0.75	0.872	1.0	(1.0)
olvi4*	0.25	0.128	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	82.0	-0.45	-7.31	
LAB*LAB	82.0	0.27	-11.16	
LAB*LAB	97.5	11.18	271.39	

relative Inform. Technology (IT)

olvi3*	0.75	0.872	1.0	(1.0)
olvi3*	0.25	0.128	0.0	(0.0)
olvi4*	0.75	0.872	1.0	(1.0)
olvi4*	0.25	0.128	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	82.0	-0.45	-7.31	
LAB*LAB	82.0	0.27	-11.16	
LAB*LAB	97.5	11.18	271.39	

relative Inform. Technology (IT)

olvi3*	0.75	0.872	1.0	(1.0)
olvi3*	0.25	0.128	0.0	(0.0)
olvi4*	0.75	0.872	1.0	(1.0)
olvi4*	0.25	0.128	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	82.0	-0.45	-7.31	
LAB*LAB	82.0	0.27	-11.16	
LAB*LAB	97.5	11.18	271.39	

relative Inform. Technology (IT)

olvi3*	0.75	0.872	1.0	(1.0)
olvi3*	0.25	0.128	0.0	(0.0)
olvi4*	0.75	0.872	1.0	(1.0)
olvi4*	0.25	0.128	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	82.0	-0.45	-7.31	
LAB*LAB	82.0	0.27	-11.16	
LAB*LAB	97.5	11.18	271.39	

relative Inform. Technology (IT)

olvi3*	0.75	0.872	1.0	(1.0)
olvi3*	0.25	0.128	0.0	(0.0)
olvi4*	0.75	0.872	1.0	(1.0)
olvi4*	0.25	0.128	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	82.0	-0.45	-7.31	
LAB*LAB	82.0	0.27	-11.16	
LAB*LAB	97.5	11.18	271.39	

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)

olvi3*	0.75	0.872	1.0	(1.0)
olvi3*	0.25	0.128	0.0	(0.0)
olvi4*	0.75	0.872	1.0	(1.0)
olvi4*	0.25	0.128	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	82.0	-0.45	-7.31	
LAB*LAB	82.0	0.27	-11.16	
LAB*LAB	97.5	11.18	271.39	

relative Inform. Technology (IT)

olvi3*	0.75	0.872	1.0	(1.0)
olvi3*	0.25	0.128	0.0	(0.0)
olvi4*	0.75	0.872	1.0	(1.0)
olvi4*	0.25	0.128	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	82.0	-0.45	-7.31	
LAB*LAB	82.0	0.27	-11.16	
LAB*LAB	97.5	11.18	271.39	

relative Inform. Technology (IT)

olvi3*	0.75	0.872	1.0	(1.0)
olvi3*	0.25	0.128	0.0	(0.0)
olvi4*	0.75	0.872	1.0	(1.0)
olvi4*	0.25	0.128	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	82.0	-0.45	-7.31	
LAB*LAB	82.0	0.27	-11.16	
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olvi4*	0.25	0.128	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	82.0	-0.45	-7.31	
LAB*LAB	82.0	0.27	-11.16	
LAB*LAB	97.5	11.18	271.39	

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olvi3*	0.25	0.128	0.0	(0.0)
olvi4*	0.75	0.872	1.0	(1.0)
olvi4*	0.25	0.128	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	82.0	-0.45	-7.31	
LAB*LAB	82.0	0.27	-11.16	
LAB*LAB	97.5	11.18	271.39	

relative Inform. Technology (IT)

olvi3*	0.75	0.872	1.0	(1.0)
olvi3*	0.25	0.128	0.0	(0.0)
olvi4*	0.75	0.872	1.0	(1.0)
olvi4*	0.25	0.128	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	82.0	-0.45	-7.31	
LAB*LAB	82.0	0.27	-11.16	
LAB*LAB	97.5	11.18	271.39	

relative Inform. Technology (IT)

olvi3*	0.75	0.872	1.0	(1.0)
olvi3*	0.25	0.128	0.0	(0.0)
olvi4*	0.75	0.872	1.0	(1.0)
olvi4*	0.25	0.128	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	82.0	-0.45	-7.31	
LAB*LAB	82.0	0.27	-11.16	
LAB*LAB	97.5	11.18	271.39	

relative Inform. Technology (IT)

olvi3*	0.75	0.872	1.0	(1.0)
olvi3*	0.25	0.128	0.0	(0.0)
olvi4*	0.75	0.872	1.0	(1.0)
olvi4*	0.25	0.128	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	82.0	-0.45	-7.31	
LAB*LAB	82.0	0.27	-11.16	
LAB*LAB	97.5	11.18	271.39	

Output: Colorimetric Offset Reflective System ORS18

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

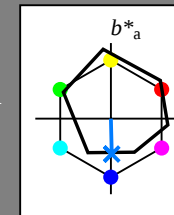
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

olv*Ma: 0.0 0.49 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi3*	0.0	0.0	0.0	(0.0)
olvi4*	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)
olvi5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	95.41	-0.98	4.75	
LAB*LAB	95.41	0.0	0.0	
LAB*LAB	99.99	0.01	0.0	

relative Inform. Technology (IT)

olvi3*	0.75	0.872	1.0	(1.0)
olvi3*	0.25	0.128	0.0	(0.0)
olvi4*	0.75	0.872	1.0	(1.0)
olvi4*	0.25	0.128	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	82.0	-0.45	-7.31	
LAB*LAB	82.0	0.27	-11.16	
LAB*LAB	97.5	11.18	271.39	

relative Inform. Technology			
olvi3*	0.5	0.744	1.0
cmyn3*	0.5	0.256	0.0
olvi4*	0.5	0.744	1.0
cmyn4*	0.5	0.256	0.0
standard and adapted CIEL			
LAB*LAB	68.6	0.07	-
LAB*LABa	68.6	0.55	-
LAB*TCUa	75.0	22.36	-