

Input: Colorimetric Offset Reflective System ORS18

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

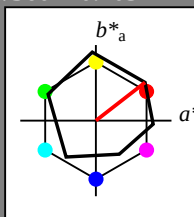
lab^*tch and lab^*nch

D50: hue O

LCH*Ma: 48 82 38

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

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

%Regularity

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

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

relative Inform. Technology (IT)

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

relative CIELAB lab*

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

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.75	(1.0)
olv3*	0.0	0.25	0.25	(0.0)
olv4*	1.0	0.75	0.75	(1.0)
olv4*	0.0	0.25	0.25	(0.0)
olv5*	1.0	0.75	0.75	(1.0)
olv5*	0.0	0.25	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	83.58	16.62	16.54	
LAB*LAB	83.58	16.62	12.19	
LAB*LAB	97.5	20.59	37.84	

relative CIELAB lab*

lab*lab	0.846	0.197	0.153	
lab*lab	0.875	0.25	0.105	
lab*lab	0.0	0.25	0.105	
lab*lab	0.0	0.25	0.105	
relative Natural Colour (NC)				
lab*lab	0.846	0.24	0.071	
lab*lab	0.875	0.25	0.046	
lab*lab	0.0	0.25	0.18	

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	25.26	
LAB*LAB	75.0	41.18	37.84	

relative CIELAB lab*

lab*lab	0.693	0.395	0.307	
lab*lab	0.75	0.5	0.105	
lab*lab	0.0	0.5	0.105	
lab*lab	0.0	0.5	0.105	
relative Natural Colour (NC)				
lab*lab	0.693	0.479	0.143	
lab*lab	0.75	0.5	0.046	
lab*lab	0.0	0.5	0.18	

relative Inform. Technology (IT)

olv3*	1.0	0.25	0.25	(1.0)
olv3*	0.0	0.75	0.75	(0.0)
olv4*	1.0	0.25	0.25	(1.0)
olv4*	0.0	0.75	0.75	(0.0)
olv5*	1.0	0.25	0.25	(1.0)
olv5*	0.0	0.75	0.75	(0.0)
standard and adapted CIELAB				
LAB*LAB	59.82	48.88	40.22	
LAB*LAB	59.82	48.88	37.9	
LAB*LAB	62.5	61.78	37.84	

relative CIELAB lab*

lab*lab	0.539	0.592	0.46	
lab*lab	0.625	0.75	0.105	
lab*lab	0.0	0.75	0.105	
lab*lab	0.0	0.75	0.105	
relative Natural Colour (NC)				
lab*lab	0.539	0.719	0.214	
lab*lab	0.625	0.75	0.046	
lab*lab	0.0	0.75	0.18	

relative Inform. Technology (IT)

olv3*	1.0	0.0	0.0	(1.0)
olv3*	0.0	0.75	0.75	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
olv4*	0.0	0.75	0.75	(0.0)
olv5*	1.0	0.0	0.0	(1.0)
olv5*	0.0	0.75	0.75	(0.0)
standard and adapted CIELAB				
LAB*LAB	47.94	65.3	52.06	
LAB*LAB	47.94	65.34	50.53	
LAB*LAB	50.0	82.36	37.84	

relative CIELAB lab*

lab*lab	0.388	0.79	0.613	
lab*lab	0.5	1.0	0.105	
lab*lab	0.0	1.0	0.105	
lab*lab	0.0	1.0	0.105	
relative Natural Colour (NC)				
lab*lab	0.388	0.958	0.285	
lab*lab	0.5	1.0	0.18	

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(1.0)
olv3*	0.0	0.5	0.5	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	71.57	0.0	0.0	
LAB*LAB	71.57	0.0	0.0	
LAB*LAB	75.0	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	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
relative Natural Colour (NC)				
lab*lab	1.0	0.0	0.0	
lab*lab	1.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.75	(1.0)
olv3*	0.0	0.25	0.25	(0.0)
olv4*	1.0	0.75	0.75	(1.0)
olv4*	0.0	0.25	0.25	(0.0)
olv5*	1.0	0.75	0.75	(1.0)
olv5*	0.0	0.25	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	85.1	19.83	15.74	
LAB*LAB	85.1	19.83	15.74	
LAB*LAB	87.5	25.32	38.44	

relative CIELAB lab*

lab*lab	0.892	0.196	0.155	
lab*lab	0.875	0.25	0.107	
lab*lab	0.0	0.25	0.107	
lab*lab	0.0	0.25	0.107	
relative Natural Colour (NC)				
lab*lab	0.892	0.24	0.071	
lab*lab	0.875	0.25	0.046	
lab*lab	0.0	0.25	0.18	

relative Inform. Technology (IT)

olv3*	0.75	0.5	0.5	(1.0)
olv3*	0.0	0.25	0.25	(0.0)
olv4*	1.0	0.75	0.75	(1.0)
olv4*	0.0	0.25	0.25	(0.0)
olv5*	1.0	0.75	0.75	(1.0)
olv5*	0.0	0.25	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	61.26	19.84	15.75	
LAB*LAB	61.26	19.84	15.75	
LAB*LAB	62.5	25.33	38.44	

relative CIELAB lab*

lab*lab	0.784	0.392	0.311	
lab*lab	0.75	0.5	0.107	
lab*lab	0.0	0.5	0.107	
lab*lab	0.0	0.5	0.107	
relative Natural Colour (NC)				
lab*lab	0.784	0.479	0.142	
lab*lab	0.75	0.5	0.046	
lab*lab	0.0	0.5	0.18	

relative Inform. Technology (IT)

olv3*	0.75	0.25	0.25	(1.0)
olv3*	0.0	0.75	0.75	(0.0)
olv4*	1.0	0.25	0.25	(1.0)
olv4*	0.0	0.75	0.75	(0.0)
olv5*	1.0	0.25	0.25	(1.0)
olv5*	0.0	0.75	0.75	(0.0)
standard and adapted CIELAB				
LAB*LAB	64.49	59.51	47.24	
LAB*LAB	64.49	59.51	47.24	
LAB*LAB	62.5	75.98	38.44	

relative CIELAB lab*

lab*lab	0.676	0.587	0.466	
lab*lab	0.625	0.75	0.107	
lab*lab	0.0	0.75	0.107	
lab*lab	0.0	0.75	0.107	
relative Natural Colour (NC)				
lab*lab	0.676	0.719	0.213	
lab*lab	0.625	0.75	0.046	
lab*lab	0.0	0.75	0.18	

relative Inform. Technology (IT)

olv3*	1.0	0.0	0.0	(1.0)
olv3*	0.0	1.0	1.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
olv4*	0.0	1.0	1.0	(0.0)
olv5*	1.0	0.0	0.0	(1.0)
olv5*	0.0	1.0	1.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	54.19	79.34	62.99	
LAB*LAB	54.19	79.34	62.99	
LAB*LAB	50.0	101.31	38.44	

relative CIELAB lab*

lab*lab	0.568	0.783	0.622	
lab*lab	0.5	1.0	0.107	
lab*lab	0.0	1.0	0.107	
lab*lab	0.0	1.0	0.107	
relative Natural Colour (NC)				
lab*lab	0.568	0.958	0.285	
lab*lab	0.5	1.0	0.18	

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
olv3*	0.0	0.75	0.75	(0.0)
olv4*	1.0	0.25	0.25	(1.0)
olv4*	0.0	0.75	0.75	(0.0)
olv5*	1.0	0.25	0.25	(1.0)
olv5*	0.0	0.75	0.75	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.78	13.1	2.11	
LAB*LAB	56.78	13.1	2.11	
LAB*LAB	50.0	0.01	0.0	

relative CIELAB lab*

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

relative Inform. Technology (IT)

olv3*	0.5	0.25	0.25	(1.0)
olv3*	0.0	0.75	0.75	(0.0)
olv4*	1.0	0.25	0.25	(1.0)
olv4*	0.0	0.75	0.75	(0.0)
olv5*	1.0	0.25	0.25	(1.0)
olv5*	0.0	0.75	0.75	(0.0)
standard and adapted CIELAB				
LAB*LAB	44.5	16.56	13.96	
LAB*LAB	44.5	16.56	13.96	
LAB*LAB	37.51	20.59	37.84	

relative CIELAB lab*

lab*lab	0.346	0.197	0.153	
lab*lab	0.375	0.25	0.105	
lab*lab	0.0	0.25	0.105	
lab*lab	0.0	0.25	0.105	
relative Natural Colour (NC)				
lab*lab	0.346	0.24	0.071	
lab*lab	0.375	0.25	0.046	
lab*lab	0.0	0.25	0.18	

relative Inform. Technology (IT)

olv3*	0.5	0.0	0.0	(1.0)
olv3*	0.0	0.75	0.75	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
olv4*	0.0	0.75	0.75	(0.0)
olv5*	1.0	0.0	0.0	(1.0)
olv5*	0.0	0.75	0.75	(0.0)
standard and adapted CIELAB				
LAB*LAB	33.02	32.96	25.26	
LAB*LAB	33.02	32.96	25.26	
LAB*LAB	25.01	41.18	37.84	

relative CIELAB lab*

lab*lab	0.193	0.395	0.307	
lab*lab	0.25	0.5	0.105	
lab*lab	0.0	0.5	0.105	
lab*lab	0.0	0.5	0.105	
relative Natural Colour (NC)				
lab*lab	0.193	0.479	0.143	
lab*lab	0.25	0.5	0.046	
lab*lab	0.0	0.5	0.18	

relative CIELAB Lab*

ab*ch	37.51	61.78	37.64
ab*lab	0.289	0.592	0.46
ab*ch	0.375	0.75	0.105
ab*ch	0.25	0.75	0.105

relative Natural Colour (NC)

ab*lrj	0.289	0.719	0.214
ab*tce	0.375	0.75	0.046
ab*nce	0.25	0.75	0.181

$n^* = 0,25$

Input: Colorimetric Offset Reflective System ORS18

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

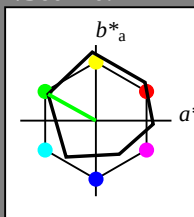
lab^*tch and lab^*nch

D50: hue L

LCH*Ma: 51 72 151

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

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

%Regularity

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

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	95.46	-39.34	4.69
LAB*LAB	95.46	0.0	0.0
LAB*LAB	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

relative Natural Colour (NC)

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	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0

relative Natural Colour (NC)

lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(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	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	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0

relative Natural Colour (NC)

lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	37.44	-0.67	0.82
LAB*LAB	37.44	0.0	0.0
LAB*LAB	37.44	0.0	0.0

relative CIELAB lab*

lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0

relative Natural Colour (NC)

lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

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

relative Natural Colour (NC)

lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

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

n* = 1,0

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	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	84.32	-16.03	12.7
LAB*LAB	84.32	-15.78	8.74
LAB*LAB	84.32	-15.78	8.74

relative CIELAB lab*

lab*lab	0.856	-0.218	0.121
lab*lab	0.856	0.25	0.42
lab*lab	0.856	0.25	0.42

relative Natural Colour (NC)

lab*lab	0.856	-0.218	0.121
lab*lab	0.856	0.25	0.42
lab*lab	0.856	0.25	0.42

relative Inform. Technology (IT)

olv3*	0.5	0.75	0.5	(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	64.98	-15.76	11.41
LAB*LAB	64.98	-15.78	7.75
LAB*LAB	64.98	-15.78	7.75

relative CIELAB lab*

lab*lab	0.606	-0.237	0.077
lab*lab	0.606	0.25	0.45
lab*lab	0.606	0.25	0.45

relative Natural Colour (NC)

lab*lab	0.606	-0.237	0.077
lab*lab	0.606	0.25	0.45
lab*lab	0.606	0.25	0.45

relative Inform. Technology (IT)

olv3*	0.25	0.5	0.25	(1.0)
olv3*	0.75	0.25	0.75	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	53.84	-31.41	19.41
LAB*LAB	53.84	-31.58	17.49
LAB*LAB	53.84	-31.58	17.49

relative CIELAB lab*

lab*lab	0.462	-0.474	0.155
lab*lab	0.462	0.25	0.45
lab*lab	0.462	0.25	0.45

relative Natural Colour (NC)

lab*lab	0.462	-0.474	0.155
lab*lab	0.462	0.25	0.45
lab*lab	0.462	0.25	0.45

relative Inform. Technology (IT)

olv3*	0.0	0.5	0.0	(1.0)
olv3*	0.75	0.25	0.75	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	34.5	-31.58	17.49
LAB*LAB	34.5	-31.58	17.49
LAB*LAB	34.5	-31.58	17.49

relative CIELAB lab*

lab*lab	0.212	-0.436	0.242
lab*lab	0.212	0.25	0.42
lab*lab	0.212	0.25	0.42

relative Natural Colour (NC)

lab*lab	0.212	-0.436	0.242
lab*lab	0.212	0.25	0.42
lab*lab	0.212	0.25	0.42

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	26.3	-15.78	8.74
LAB*LAB	26.3	-15.78	8.74
LAB*LAB	26.3	-15.78	8.74

relative CIELAB lab*

lab*lab	0.106	-0.218	0.121
lab*lab	0.106	0.25	0.42
lab*lab	0.106	0.25	0.42

relative Natural Colour (NC)

lab*lab	0.106	-0.218	0.121
lab*lab	0.106	0.25	0.42
lab*lab	0.106	0.25	0.42

n* = 0,50

relative Inform. Technology (IT)

olv3*	0.5	1.0	0.5	(1.0)
olv3*	0.25	0.0	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	73.18	-31.67	20.7
LAB*LAB	73.18	-31.58	17.49
LAB*LAB	73.18	-31.58	17.49

relative CIELAB lab*

lab*lab	0.712	-0.436	0.242
lab*lab	0.712	0.25	0.42
lab*lab	0.712	0.25	0.42

relative Natural Colour (NC)

lab*lab	0.712	-0.436	0.242
lab*lab	0.712	0.25	0.42
lab*lab	0.712	0.25	0.42

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	53.84	-31.41	19.41
LAB*LAB	53.84	-31.58	17.49
LAB*LAB	53.84	-31.58	17.49

relative CIELAB lab*

lab*lab	0.568	-0.655	0.363
lab*lab	0.568	0.25	0.42
lab*lab	0.568	0.25	0.42

relative Natural Colour (NC)

lab*lab	0.568	-0.655	0.363
lab*lab	0.568	0.25	0.42
lab*lab	0.568	0.25	0.42

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	50.9	-62.95	36.7
LAB*LAB	50.9	-63.16	34.97
LAB*LAB	50.9	-63.16	34.97

relative CIELAB lab*

lab*lab	0.424	-0.874	0.484
lab*lab	0.424	0.25	0.42
lab*lab	0.424	0.25	0.42

relative Natural Colour (NC)

lab*lab	0.424	-0.874	0.484
lab*lab	0.424	0.25	0.42
lab*lab	0.424	0.25	0.42

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	42.7	-47.04	27.41
LAB*LAB	42.7	-47.04	27.41
LAB*LAB	42.7	-47.04	27.41

relative CIELAB lab*

lab*lab	0.318	-0.655	0.363
lab*lab	0.318	0.25	0.42
lab*lab	0.318	0.25	0.42

relative Natural Colour (NC)

lab*lab	0.318	-0.655	0.363
lab*lab	0.318	0.25	0.42
lab*lab	0.318	0.25	0.42

<

Input: Colorimetric Offset Reflective System ORS18

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

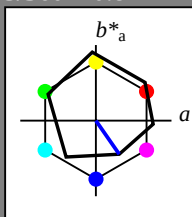
lab^*tch and lab^*nch

D50: hue V

LCH*Ma: 26 54 305

olv*Ma: 0.0 0.0 1.0

triangle lightness t^*



$u^*_{rel} = 94$

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 95.46 0.0 0.0
LAB*LABc 95.46 0.0 0.0

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

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.12 -0.12 3.4
LAB*LABa 76.12 0.0 0.0
LAB*LABb 76.12 0.0 0.0
LAB*LABc 76.12 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 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 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.78 0.0 0.0
LAB*LABa 56.78 0.0 0.0
LAB*LABb 56.78 0.0 0.0
LAB*LABc 56.78 0.0 0.0

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

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.16 0.0 0.0
LAB*LABa 37.16 0.0 0.0
LAB*LABb 37.16 0.0 0.0
LAB*LABc 37.16 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*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*LABb 18.1 0.0 0.0
LAB*LABc 18.1 0.0 0.0

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0

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

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* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 60.59 15.52 -19.82
LAB*LABa 60.59 15.52 -19.82
LAB*LABb 60.59 15.52 -19.82
LAB*LABc 60.59 15.52 -19.82

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

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 41.25 15.79 -21.11
LAB*LABa 41.25 15.79 -21.11
LAB*LABb 41.25 15.79 -21.11
LAB*LABc 41.25 15.79 -21.11

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 23.82 23.16 -33.37
LAB*LABa 23.82 23.16 -33.37
LAB*LABb 23.82 23.16 -33.37
LAB*LABc 23.82 23.16 -33.37

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0

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

Output: Colorimetric Television Luminous System TLS00

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

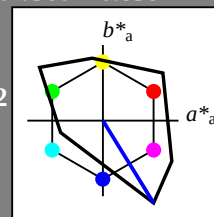
lab^*tch and lab^*nch

D50: hue V

LCH*Ma: 26 128 302

olv*Ma: 0.0 0.0 1.0

triangle lightness t^*



$u^*_{rel} = 156$

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 95.41 0.0 0.0
LAB*LABc 95.41 0.0 0.0

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

relative Inform. Technology (IT)
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 71.57 0.0 0.0
LAB*LABc 71.57 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*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 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 54.11 16.76 -27.21
LAB*LABa 54.11 16.76 -27.21
LAB*LABb 54.11 16.76 -27.21
LAB*LABc 54.11 16.76 -27.21

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

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 36.66 33.53 -54.43
LAB*LABa 36.66 33.53 -54.43
LAB*LABb 36.66 33.53 -54.43
LAB*LABc 36.66 33.53 -54.43

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 12.82 6.42 16.76
LAB*LABa 12.82 6.42 16.76
LAB*LABb 12.82 6.42 16.76
LAB*LABc 12.82 6.42 16.76

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0

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

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* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 60.51 33.52 -54.42
LAB*LABa 60.51 33.52 -54.42
LAB*LABb 60.51 33.52 -54.42
LAB*LABc 60.51 33.52 -54.42

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

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 41.25 15.79 -21.11
LAB*LABa 41.25 15.79 -21.11
LAB*LABb 41.25 15.79 -21.11
LAB*LABc 41.25 15.79 -21.11

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 23.82 23.16 -33.37
LAB*LABa 23.82 23.16 -33.37
LAB*LABb 23.82 23.16 -33.37
LAB*LABc 23.82 23.16 -33.37

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0

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

BAM-test chart PE50; Colorimetric systems ORS18 & ORS18

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

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

input: $olv^* setrgbcolor$

output: Startup (S) data dependend

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 356/360 = 0.99$

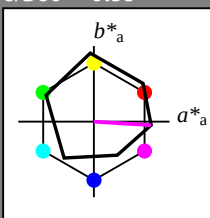
lab^*tch and lab^*nch

D50: hue M

LCH*Ma: 50 76 356

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



$u^*_{rel} = 94$

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 -

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 0.75
cmyn4* 0.0 0.0 0.0 0.25
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 -

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 (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 0.13 2.11
LAB*LABa 56.78 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 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 37.48 0.62 0.82
LAB*LABa 37.44 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 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 18.1 0.0 0.0
LAB*LABa 18.1 0.0 0.0
LAB*LABb 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

$n^* = 1.0$

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 0.5 1.0 (1.0)
cmyn3* 0.0 0.5 0.0 (0.0)
olv4* 1.0 0.5 1.0 1.0
cmyn4* 0.0 0.5 0.0 0.0
standard and adapted CIELAB
LAB*LAB 72.72 37.79 0.96
LAB*LABa 72.72 37.87 -2.31
LAB*LABb 75.0 37.94 356.49

relative CIELAB lab*
lab*lab 0.706 0.499 -0.03
lab*tch 0.75 0.5 0.99
lab*nch 0.0 0.5 0.99
relative Natural Colour (NC)
lab*trj 0.706 0.464 -0.186
lab*tce 0.75 0.5 0.939
lab*nce 0.0 0.5 0.939

relative Inform. Technology (IT)
olv3* 0.75 0.25 0.75 (1.0)
cmyn3* 0.25 0.75 0.25 (0.0)
olv4* 1.0 0.5 1.0 0.75
cmyn4* 0.0 0.5 0.0 0.25
standard and adapted CIELAB
LAB*LAB 53.38 37.88 -2.31
LAB*LABa 53.38 37.88 -2.31
LAB*LABb 50.0 37.95 356.49

relative CIELAB lab*
lab*lab 0.559 0.748 -0.045
lab*tch 0.625 0.75 0.99
lab*nch 0.0 0.75 0.99
relative Natural Colour (NC)
lab*trj 0.559 0.696 -0.279
lab*tce 0.625 0.75 0.939
lab*nce 0.0 0.75 0.939

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.5 (1.0)
cmyn3* 0.5 0.0 0.5 (0.0)
olv4* 1.0 0.5 1.0 0.5
cmyn4* 0.0 0.5 0.0 0.5
standard and adapted CIELAB
LAB*LAB 42.02 57.15 -2.34
LAB*LABa 42.02 56.81 -3.48
LAB*LABb 37.51 56.92 356.49

relative CIELAB lab*
lab*lab 0.309 0.748 -0.045
lab*tch 0.375 0.75 0.99
lab*nch 0.0 0.75 0.99
relative Natural Colour (NC)
lab*trj 0.309 0.696 -0.279
lab*tce 0.375 0.75 0.939
lab*nce 0.0 0.75 0.939

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.25 (1.0)
cmyn3* 0.25 0.0 0.25 (0.0)
olv4* 1.0 0.5 1.0 0.25
cmyn4* 0.0 0.5 0.0 0.25
standard and adapted CIELAB
LAB*LAB 34.04 38.22 -2.31
LAB*LABa 34.04 37.87 -2.31
LAB*LABb 25.01 37.94 356.49

relative CIELAB lab*
lab*lab 0.206 0.499 -0.03
lab*tch 0.25 0.5 0.99
lab*nch 0.0 0.5 0.99
relative Natural Colour (NC)
lab*trj 0.206 0.464 -0.186
lab*tce 0.25 0.5 0.939
lab*nce 0.0 0.5 0.939

$n^* = 0.50$

relative Inform. Technology (IT)
olv3* 1.0 0.25 1.0 (1.0)
cmyn3* 0.0 0.25 0.0 (0.0)
olv4* 1.0 0.25 1.0 0.25
cmyn4* 0.0 0.25 0.0 0.25
standard and adapted CIELAB
LAB*LAB 61.35 56.88 -1.05
LAB*LABa 61.35 56.81 -3.48
LAB*LABb 62.5 56.92 356.49

relative CIELAB lab*
lab*lab 0.706 0.464 -0.186
lab*tch 0.75 0.5 0.939
lab*nch 0.0 0.5 0.939
relative Natural Colour (NC)
lab*trj 0.706 0.464 -0.186
lab*tce 0.75 0.5 0.939
lab*nce 0.0 0.5 0.939

relative Inform. Technology (IT)
olv3* 0.75 0.0 0.75 (1.0)
cmyn3* 0.25 0.0 0.25 (0.0)
olv4* 1.0 0.25 1.0 0.75
cmyn4* 0.0 0.25 0.0 0.75
standard and adapted CIELAB
LAB*LAB 49.99 75.97 -2.97
LAB*LABa 49.99 75.75 -4.64
LAB*LABb 50.0 75.89 356.49

relative CIELAB lab*
lab*lab 0.412 0.998 -0.06
lab*tch 0.5 1.0 0.99
lab*nch 0.0 1.0 0.99
relative Natural Colour (NC)
lab*trj 0.412 0.928 -0.372
lab*tce 0.5 1.0 0.939
lab*nce 0.0 1.0 0.939

relative Inform. Technology (IT)
olv3* 0.5 0.25 0.5 (1.0)
cmyn3* 0.5 0.25 0.5 (0.0)
olv4* 1.0 0.5 1.0 0.5
cmyn4* 0.0 0.5 0.0 0.5
standard and adapted CIELAB
LAB*LAB 37.51 56.92 356.49

relative CIELAB lab*
lab*lab 0.309 0.748 -0.045
lab*tch 0.375 0.75 0.99
lab*nch 0.0 0.75 0.99
relative Natural Colour (NC)
lab*trj 0.309 0.696 -0.279
lab*tce 0.375 0.75 0.939
lab*nce 0.0 0.75 0.939

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 0.25
cmyn4* 0.0 0.25 0.0 0.25
standard and adapted CIELAB
LAB*LAB 23.87 0.0 0.0
LAB*LABa 23.87 0.0 0.0
LAB*LABb 25.01 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 1.0 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 1.0 0.0 0.0

$n^* = 0.00$

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 330/360 = 0.915$

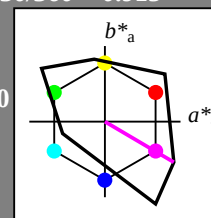
lab^*tch and lab^*nch

D50: hue M

LCH*Ma: 59 106 330

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



$u^*_{rel} = 156$

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 -

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 0.75
cmyn4* 0.0 0.0 0.0 0.25
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 -

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 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.5 0.0 0.5
standard and adapted CIELAB
LAB*LAB 53.38 37.88 -2.31
LAB*LABa 53.38 37.88 -2.31
LAB*LABb 50.0 37.95 356.49

relative CIELAB lab*
lab*lab 0.559 0.748 -0.045
lab*tch 0.625 0.75 0.99
lab*nch 0.0 0.75 0.99
relative Natural Colour (NC)
lab*trj 0.559 0.696 -0.279
lab*tce 0.625 0.75 0.939
lab*nce 0.0 0.75 0.939

relative Inform. Technology (IT)
olv3* 0.75 0.25 0.75 (1.0)
cmyn3* 0.25 0.75 0.25 (0.0)
olv4* 1.0 0.5 1.0 0.75
cmyn4* 0.0 0.5 0.0 0.25
standard and adapted CIELAB
LAB*LAB 49.99 75.97 -2.97
LAB*LABa 49.99 75.75 -4.64
LAB*LABb 50.0 75.89 356.49

relative CIELAB lab*
lab*lab 0.412 0.998 -0.06
lab*tch 0.5 1.0 0.99
lab*nch 0.0 1.0 0.99
relative Natural Colour (NC)
lab*trj 0.412 0.928 -0.372
lab*tce 0.5 1.0 0.939
lab*nce 0.0 1.0 0.939

relative Inform. Technology (IT)
olv3* 0.5 0.25 0.5 (1.0)
cmyn3* 0.5 0.25 0.5 (0.0)
olv4* 1.0 0.5 1.0 0.5
cmyn4* 0.0 0.5 0.0 0.5
standard and adapted CIELAB
LAB*LAB 37.51 56.92 356.49

relative CIELAB lab*
lab*lab 0.309 0.748 -0.045
lab*tch 0.375 0.75 0.99
lab*nch 0.0 0.75 0.99
relative Natural Colour (NC)
lab*trj 0.309 0.696 -0.279
lab*tce 0.375 0.75 0.939
lab*nce 0.0 0.75 0.939

$n^* = 0.25$

relative Inform. Technology (IT)
olv3* 0.75 0.5 0.75 (1.0)
cmyn3* 0.25 0.5 0.25 (0.0)
olv4* 1.0 0.75 1.0 0.75
cmyn4* 0.0 0.5 0.0 0.25
standard and adapted CIELAB
LAB*LAB 62.4 22.8 -13.42
LAB*LABa 62.4 22.8 -13.42
LAB*LABb 62.5 26.45 329.5

relative CIELAB lab*
lab*lab 0.504 0.215 -0.126
lab*tch 0.875 0.25 0.915
lab*nch 0.0 0.25 0.915
relative Natural Colour (NC)
lab*trj 0.504 0.185 -0.167
lab*tce 0.875 0.25 0.883
lab*nce 0.0 0.25 0.833

relative Inform. Technology (IT)
olv3* 0.75 0.25 0.75 (1.0)
cmyn3* 0.25 0.75 0.25 (0.0)
olv4* 1.0 0.5 1.0 0.75
cmyn4* 0.0 0.5 0.0 0.25
standard and adapted CIELAB
LAB*LAB 53.24 45.59 -26.84
LAB*LABa 53.24 45.59 -26.84
LAB*LABb 50.0 52.91 329.5

relative CIELAB lab*
lab*lab 0.808 0.431 -0.253
lab*tch 0.75 0.5 0.915
lab*nch 0.0 0.5 0.915
relative Natural Colour (NC)
lab*trj 0.808 0.371 -0.334
lab*tce 0.75 0.5 0.883
lab*nce 0.0 0.5 0.833

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.5 (1.0)
cmyn3* 0.5 0.0 0.5 (0.0)
olv4* 1.0 0.5 1.0 0.5
cmyn4* 0.0 0.5 0.0 0.5
standard and adapted CIELAB
LAB*LAB 44.08 68.38 -40.26
LAB*LABa 44.08 68.38 -40.26
LAB*LABb 37.51 79.35 329.5

relative CIELAB lab*
lab*lab 0.462 0.566 -0.502
lab*tch 0.625 0.75 0.939
lab*nch 0.0 0.75 0.939
relative Natural Colour (NC)
lab*trj 0.462 0.566 -0.502
lab*tce 0.625 0.75 0.939
lab*nce 0.0 0.75 0.939

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.25 (1.0)
cmyn3* 0.25 0.0 0.25 (0.0)
olv4* 1.0 0.25 1.0 0.25
cmyn4* 0.0 0.25 0.0 0.25
standard and adapted CIELAB
LAB*LAB 29.38 37.87 -2.31
LAB*LABa 29.38 37.87 -2.31
LAB*LABb 25.01 37.94 356.49

relative CIELAB lab*
lab*lab 0.206 0.499 -0.03
lab*tch 0.25 0.5 0.99
lab*nch 0.0 0.5 0.99
relative Natural Colour (NC)
lab*trj 0.206 0.464 -0.186
lab*tce 0.25 0.5 0.939
lab*nce 0.0 0.5 0.939

$n^* = 0.50$

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 0.5 1.0 (1.0)
cmyn3* 0.0 0.5 0.0 (0.0)
olv4* 1.0 0.5 1.0 1.0
cmyn4* 0.0 0.5 0.0 0.0
standard and adapted CIELAB
LAB*LAB 77.08 45.58 -26.83
LAB*LABa 77.08 45.58 -26.83
LAB*LABb 75.0 52.9 329.5

relative CIELAB lab*
lab*lab 0.808 0.431 -0.253
lab*tch 0.75 0.5 0.915
lab*nch 0.0 0.5 0.915
relative Natural Colour (NC)
lab*trj 0.808 0.371 -0.334
lab*tce 0.75 0.5 0.883
lab*nce 0.0 0.5 0.833

relative Inform. Technology (IT)
olv3* 0.75 0.25 0.75 (1.0)
cmyn3* 0.25 0.75 0.25 (0.0)
olv4* 1.0 0.5 1.0 0.75
cmyn4* 0.0 0.5 0.0 0.25
standard and adapted CIELAB
LAB*LAB 53.24 45.59 -26.84
LAB*LABa 53.24 45.59 -26.84
LAB*LABb 50.0 52.91 329.5

relative CIELAB lab*
lab*lab 0.808 0.431 -0.253
lab*tch 0.75 0.5 0.915
lab*nch 0.0 0.5 0.915
relative Natural Colour (NC)
lab*trj 0.808 0.371 -0.334
lab*tce 0.75 0.5 0.883
lab*nce 0.0 0.5 0.833

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.5 (1.0)
cmyn3* 0.5 0.0 0.5 (0.0)
olv4* 1.0 0.5 1.0 0.5
cmyn4* 0.0 0.5 0.0 0.5
standard and adapted C

Input: Colorimetric Offset Reflective System ORS18

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

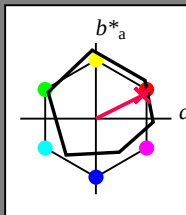
lab^*tch and lab^*nch

D50: hue R

LCH*Ma: 49 76 26

olv*Ma: 1.0 0.0 0.3

triangle lightness t^*



$u^*_{rel} = 94$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.46 -39.49 4.69
LAB*LABa 95.46 0.0 0.0
LAB*LABb 95.46 0.0 0.0
LAB*LABc 95.46 0.0 0.0

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

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 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*LABb 76.12 0.0 0.0
LAB*LABc 76.12 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.75 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 56.78 0.0 0.0
LAB*LABa 56.78 0.0 0.0
LAB*LABb 56.78 0.0 0.0
LAB*LABc 56.78 0.0 0.0

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

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.44 0.0 0.0
LAB*LABa 37.44 0.0 0.0
LAB*LABb 37.44 0.0 0.0
LAB*LABc 37.44 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*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*LABb 18.1 0.0 0.0
LAB*LABc 18.1 0.0 0.0

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0

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

ORS18; adapted (a) CIELAB data

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

%Regularity

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

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

relative Inform. Technology (IT)
olv3* 1.0 0.5 0.5 (1.0)
cmyn3* 0.0 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 72.0 34.05 20.12
LAB*LABa 72.0 34.13 16.99
LAB*LABb 72.0 34.13 16.99
LAB*LABc 72.0 34.13 16.99

relative CIELAB lab*
lab*lab 0.697 0.48 0.223
lab*tch 0.75 0.5 0.074
lab*nch 0.0 0.5 0.074
relative Natural Colour (NC)
lab*trj 0.697 0.5 0.0
lab*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 1.0 0.5 (0.5)
cmyn4* 0.0 0.5 0.35 (0.25)
standard and adapted CIELAB
LAB*LAB 52.67 34.32 18.84
LAB*LABa 52.67 34.13 16.99
LAB*LABb 52.67 34.13 16.99
LAB*LABc 52.67 34.13 16.99

relative CIELAB lab*
lab*lab 0.487 0.48 0.223
lab*tch 0.5 0.5 0.074
lab*nch 0.0 0.5 0.074
relative Natural Colour (NC)
lab*trj 0.487 0.5 0.0
lab*tce 0.5 0.5 0.074
lab*nce 0.0 0.5 0.074

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.5 (1.0)
cmyn3* 0.5 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (0.5)
cmyn4* 0.0 0.5 0.35 (0.25)
standard and adapted CIELAB
LAB*LAB 40.94 51.55 26.55
LAB*LABa 40.94 51.19 25.49
LAB*LABb 40.94 51.19 25.49
LAB*LABc 40.94 51.19 25.49

relative CIELAB lab*
lab*lab 0.295 0.671 0.334
lab*tch 0.375 0.75 0.074
lab*nch 0.0 0.75 0.074
relative Natural Colour (NC)
lab*trj 0.295 0.75 0.0
lab*tce 0.375 0.75 0.074
lab*nce 0.0 0.75 0.074

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.75 (1.0)
cmyn3* 0.75 0.0 0.75 (0.0)
olv4* 1.0 1.0 0.75 (0.75)
cmyn4* 0.0 0.75 0.75 (0.75)
standard and adapted CIELAB
LAB*LAB 33.33 34.32 18.84
LAB*LABa 33.33 34.13 16.99
LAB*LABb 33.33 34.13 16.99
LAB*LABc 33.33 34.13 16.99

relative CIELAB lab*
lab*lab 0.197 0.447 0.223
lab*tch 0.25 0.5 0.074
lab*nch 0.0 0.5 0.074
relative Natural Colour (NC)
lab*trj 0.197 0.5 0.0
lab*tce 0.25 0.5 0.074
lab*nce 0.0 0.5 0.074

relative Inform. Technology (IT)
olv3* 0.0 0.0 1.0 (1.0)
cmyn3* 1.0 0.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0

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

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 27/360 = 0.075$

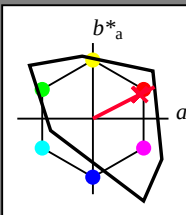
lab^*tch and lab^*nch

D50: hue R

LCH*Ma: 55 92 27

olv*Ma: 1.0 0.0 0.18

triangle lightness t^*



$u^*_{rel} = 156$

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 95.41 0.0 0.0
LAB*LABc 95.41 0.0 0.0

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

relative Inform. Technology (IT)
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 71.57 0.0 0.0
LAB*LABc 71.57 0.0 0.0

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

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 1.0 0.5 (0.5)
cmyn4* 0.0 0.5 0.35 (0.25)
standard and adapted CIELAB
LAB*LAB 52.67 34.32 18.84
LAB*LABa 52.67 34.13 16.99
LAB*LABb 52.67 34.13 16.99
LAB*LABc 52.67 34.13 16.99

relative CIELAB lab*
lab*lab 0.487 0.48 0.223
lab*tch 0.5 0.5 0.074
lab*nch 0.0 0.5 0.074
relative Natural Colour (NC)
lab*trj 0.487 0.5 0.0
lab*tce 0.5 0.5 0.074
lab*nce 0.0 0.5 0.074

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.5 (1.0)
cmyn3* 0.5 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (0.5)
cmyn4* 0.0 0.5 0.35 (0.25)
standard and adapted CIELAB
LAB*LAB 40.94 51.55 26.55
LAB*LABa 40.94 51.19 25.49
LAB*LABb 40.94 51.19 25.49
LAB*LABc 40.94 51.19 25.49

relative CIELAB lab*
lab*lab 0.295 0.671 0.334
lab*tch 0.375 0.75 0.074
lab*nch 0.0 0.75 0.074
relative Natural Colour (NC)
lab*trj 0.295 0.75 0.0
lab*tce 0.375 0.75 0.074
lab*nce 0.0 0.75 0.074

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.75 (1.0)
cmyn3* 0.75 0.0 0.75 (0.0)
olv4* 1.0 1.0 0.75 (0.75)
cmyn4* 0.0 0.75 0.75 (0.75)
standard and adapted CIELAB
LAB*LAB 33.33 34.32 18.84
LAB*LABa 33.33 34.13 16.99
LAB*LABb 33.33 34.13 16.99
LAB*LABc 33.33 34.13 16.99

relative CIELAB lab*
lab*lab 0.197 0.447 0.223
lab*tch 0.25 0.5 0.074
lab*nch 0.0 0.5 0.074
relative Natural Colour (NC)
lab*trj 0.197 0.5 0.0
lab*tce 0.25 0.5 0.074
lab*nce 0.0 0.5 0.074

relative Inform. Technology (IT)
olv3* 0.0 0.0 1.0 (1.0)
cmyn3* 1.0 0.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0

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

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 0.5 0.5 (1.0)
cmyn3* 0.0 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 75.21 40.74 20.91
LAB*LABa 75.21 40.74 20.91
LAB*LABb 75.21 40.74 20.91
LAB*LABc 75.21 40.74 20.91

relative CIELAB lab*
lab*lab 0.788 0.445 0.228
lab*tch 0.75 0.5 0.075
lab*nch 0.0 0.5 0.075
relative Natural Colour (NC)
lab*trj 0.788 0.5 0.0
lab*tce 0.75 0.5 0.075
lab*nce 0.0 0.5 0.075

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 1.0 0.5 (0.5)
cmyn4* 0.0 0.5 0.35 (0.25)
standard and adapted CIELAB
LAB*LAB 51.36 40.75 20.92
LAB*LABa 51.36 40.75 20.92
LAB*LABb 51.36 40.75 20.92
LAB*LABc 51.36 40.75 20.92

relative CIELAB lab*
lab*lab 0.432 0.667 0.342
lab*tch 0.5 0.5 0.075
lab*nch 0.0 0.5 0.075
relative Natural Colour (NC)
lab*trj 0.432 0.5 0.0
lab*tce 0.5 0.5 0.075
lab*nce 0.0 0.5 0.075

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.5 (1.0)
cmyn3* 0.5 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (0.5)
cmyn4* 0.0 0.5 0.35 (0.25)
standard and adapted CIELAB
LAB*LAB 40.94 51.55 26.55
LAB*LABa 40.94 51.19 25.49
LAB*LABb 40.94 51.19 25.49
LAB*LABc 40.94 51.19 25.49

relative CIELAB lab*
lab*lab 0.295 0.671 0.334
lab*tch 0.375 0.75 0.074
lab*nch 0.0 0.75 0.074
relative Natural Colour (NC)
lab*trj 0.295 0.75 0.0
lab*tce 0.375 0.75 0.074
lab*nce 0.0 0.75 0.074

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.75 (1.0)
cmyn3* 0.75 0.0 0.75 (0.0)
olv4* 1.0 1.0 0.75 (0.75)
cmyn4* 0.0 0.75 0.75 (0.75)
standard and adapted CIELAB
LAB*LAB 33.33 34.32 18.84
LAB*LABa 33.33 34.13 16.99
LAB*LABb 33.33 34.13 16.99
LAB*LABc 33.33 34.13 16.99

relative CIELAB lab*
lab*lab 0.197 0.447 0.223
lab*tch 0.25 0.5 0.074
lab*nch 0.0 0.5 0.074
relative Natural Colour (NC)
lab*trj 0.197 0.5 0.0
lab*tce 0.25 0.5 0.074
lab*nce 0.0 0.5 0.074

relative Inform. Technology (IT)
olv3* 0.0 0.0 1.0 (1.0)
cmyn3* 1.0 0.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0

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

PE500-7, 5 step scales for constant CIELAB hue 26/360 = 0.074 (left)

5 step scales for constant CIELAB hue 27/360 = 0.075 (right)

BAM-test chart PE50; Colorimetric systems ORS18 & ORS18

input: olv* setrgbcolor

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

output: Startup (S) data dependend

Input: Colorimetric Offset Reflective System ORS18

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

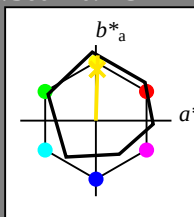
lab^*tch and lab^*nch

D50: hue J

LCH*Ma: 86 86 88

olv*Ma: 1.0 0.9 0.0

triangle lightness t^*



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 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 0.0
LAB*LABa 95.46 0.0 0.0
LAB*LABb 95.46 0.0 0.0
LAB*LABc 95.46 0.0 0.0

relative Inform. Technology (IT)
olv3* 1.0 0.974 0.75 (1.0)
cmyn3* 0.0 0.026 0.25 (0.0)
olv4* 1.0 0.974 0.75 (1.0)
cmyn4* 0.0 0.026 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 93.21 0.27 26.14
LAB*LABa 93.21 0.27 26.14
LAB*LABb 93.21 0.27 26.14
LAB*LABc 93.21 0.27 26.14

relative Inform. Technology (IT)
olv3* 1.0 0.948 0.5 (1.0)
cmyn3* 0.0 0.079 0.25 (0.0)
olv4* 1.0 0.948 0.5 (1.0)
cmyn4* 0.0 0.079 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 90.97 0.94 47.59
LAB*LABa 90.97 0.94 47.59
LAB*LABb 90.97 0.94 47.59
LAB*LABc 90.97 0.94 47.59

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 1.62 69.03
LAB*LABb 88.73 1.62 69.03
LAB*LABc 88.73 1.62 69.03

relative Inform. Technology (IT)
olv3* 1.0 0.895 0.0 (1.0)
cmyn3* 0.0 0.105 1.0 (0.0)
olv4* 1.0 0.895 0.0 (1.0)
cmyn4* 0.0 0.105 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 86.49 2.57 86.37
LAB*LABa 86.49 2.57 86.37
LAB*LABb 86.49 2.57 86.37
LAB*LABc 86.49 2.57 86.37

Output: Colorimetric Television Luminous System TLS00

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

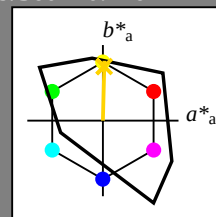
lab^*tch and lab^*nch

D50: hue J

LCH*Ma: 87 79 89

olv*Ma: 1.0 0.83 0.0

triangle lightness t^*



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
RCIE	41.88	62.0	31.82	69.69	27
JCIE	81.97	1.81	71.59	71.61	89
GCIE	51.62	-41.11	11.52	42.7	164
BCIE	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*LABa 95.41 0.0 0.0
LAB*LABb 95.41 0.0 0.0
LAB*LABc 95.41 0.0 0.0

relative Inform. Technology (IT)
olv3* 1.0 0.957 0.75 (1.0)
cmyn3* 0.0 0.043 0.25 (0.0)
olv4* 1.0 0.957 0.75 (1.0)
cmyn4* 0.0 0.043 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 93.21 0.49 19.79
LAB*LABa 93.21 0.49 19.79
LAB*LABb 93.21 0.49 19.79
LAB*LABc 93.21 0.49 19.79

relative Inform. Technology (IT)
olv3* 1.0 0.927 0.25 (1.0)
cmyn3* 0.0 0.079 0.25 (0.0)
olv4* 1.0 0.927 0.25 (1.0)
cmyn4* 0.0 0.079 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 90.97 0.94 47.59
LAB*LABa 90.97 0.94 47.59
LAB*LABb 90.97 0.94 47.59
LAB*LABc 90.97 0.94 47.59

relative Inform. Technology (IT)
olv3* 1.0 0.907 0.5 (1.0)
cmyn3* 0.0 0.105 1.0 (0.0)
olv4* 1.0 0.907 0.5 (1.0)
cmyn4* 0.0 0.105 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 88.73 1.62 69.03
LAB*LABa 88.73 1.62 69.03
LAB*LABb 88.73 1.62 69.03
LAB*LABc 88.73 1.62 69.03

relative Inform. Technology (IT)
olv3* 1.0 0.887 0.0 (1.0)
cmyn3* 0.0 0.137 0.75 (0.0)
olv4* 1.0 0.887 0.0 (1.0)
cmyn4* 0.0 0.137 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 86.49 2.57 86.37
LAB*LABa 86.49 2.57 86.37
LAB*LABb 86.49 2.57 86.37
LAB*LABc 86.49 2.57 86.37

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.12 -0.12 3.4
LAB*LABa 76.12 0.0 0.0
LAB*LABb 76.12 0.0 0.0
LAB*LABc 76.12 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.724 0.5 (1.0)
cmyn3* 0.5 0.276 0.5 (0.0)
olv4* 1.0 0.974 0.75 (1.0)
cmyn4* 0.0 0.026 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 73.87 0.64 21.6
LAB*LABa 73.87 0.64 21.6
LAB*LABb 73.87 0.64 21.6
LAB*LABc 73.87 0.64 21.6

relative Inform. Technology (IT)
olv3* 0.75 0.698 0.25 (1.0)
cmyn3* 0.5 0.245 0.5 (0.0)
olv4* 1.0 0.974 0.75 (1.0)
cmyn4* 0.0 0.026 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 71.63 1.22 46.3
LAB*LABa 71.63 1.22 46.3
LAB*LABb 71.63 1.22 46.3
LAB*LABc 71.63 1.22 46.3

relative Inform. Technology (IT)
olv3* 0.75 0.671 0.0 (1.0)
cmyn3* 0.5 0.245 0.5 (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 69.39 1.93 64.78
LAB*LABa 69.39 1.93 64.78
LAB*LABb 69.39 1.93 64.78
LAB*LABc 69.39 1.93 64.78

relative Inform. Technology (IT)
olv3* 0.75 0.625 0.25 (1.0)
cmyn3* 0.5 0.245 0.5 (0.0)
olv4* 1.0 0.895 0.0 (1.0)
cmyn4* 0.0 0.105 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 66.25 2.57 86.37
LAB*LABa 66.25 2.57 86.37
LAB*LABb 66.25 2.57 86.37
LAB*LABc 66.25 2.57 86.37

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LABa 47.72 0.0 0.0
LAB*LABb 47.72 0.0 0.0
LAB*LABc 47.72 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.457 0.06 0.25
cmyn3* 0.5 0.245 0.246
olv4* 1.0 0.957 0.75 0.75
cmyn4* 0.0 0.043 0.25 0.25
standard and adapted CIELAB
LAB*LAB 69.37 0.5 19.8
LAB*LABa 69.37 0.5 19.8
LAB*LABb 69.37 0.5 19.8
LAB*LABc 69.37 0.5 19.8

relative Inform. Technology (IT)
olv3* 0.75 0.663 0.25 (1.0)
cmyn3* 0.5 0.337 0.75 (0.0)
olv4* 1.0 0.913 0.5 0.75
cmyn4* 0.0 0.087 0.5 0.25
standard and adapted CIELAB
LAB*LAB 67.18 1.0 39.6
LAB*LABa 67.18 1.0 39.6
LAB*LABb 67.18 1.0 39.6
LAB*LABc 67.18 1.0 39.6

relative Inform. Technology (IT)
olv3* 0.75 0.625 0.25 (1.0)
cmyn3* 0.5 0.245 0.246
olv4* 1.0 0.957 0.75 0.75
cmyn4* 0.0 0.043 0.25 0.25
standard and adapted CIELAB
LAB*LAB 69.37 0.5 19.8
LAB*LABa 69.37 0.5 19.8
LAB*LABb 69.37 0.5 19.8
LAB*LABc 69.37 0.5 19.8

relative Inform. Technology (IT)
olv3* 0.75 0.625 0.25 (1.0)
cmyn3* 0.5 0.245 0.246
olv4* 1.0 0.957 0.75 0.75
cmyn4* 0.0 0.043 0.25 0.25
standard and adapted CIELAB
LAB*LAB 69.37 0.5 19.8
LAB*LABa 69.37 0.5 19.8
LAB*LABb 69.37 0.5 19.8
LAB*LABc 69.37 0.5 19.8

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.78 0.13 2.11
LAB*LABa 56.78 0.0 0.0
LAB*LABb 56.78 0.0 0.0
LAB*LABc 56.78 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.526 0.75 (1.0)
cmyn3* 0.5 0.276 0.5 (0.0)
olv4* 1.0 0.974 0.75 (1.0)
cmyn4* 0.0 0.026 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 54.28 0.81 23.57
LAB*LABa 54.28 0.81 23.57
LAB*LABb 54.28 0.81 23.57
LAB*LABc 54.28 0.81 23.57

relative Inform. Technology (IT)
olv3* 0.5 0.448 0.0 (1.0)
cmyn3* 0.5 0.245 0.5 (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 52.29 1.29 43.18
LAB*LABa 52.29 1.29 43.18
LAB*LABb 52.29 1.29 43.18
LAB*LABc 52.29 1.29 43.18

relative Inform. Technology (IT)
olv3* 0.5 0.402 0.015 0.5
cmyn3* 0.5 0.245 0.5 (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 50.0 43.21 88.29
LAB*LABa 50.0 43.21 88.29
LAB*LABb 50.0 43.21 88.29
LAB*LABc 50.0 43.21 88.29

relative Inform. Technology (IT)
olv3* 0.5 0.329 1.0 (0.0)
cmyn3* 0.5 0.245 0.5 (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 48.39 1.62 69.03
LAB*LABa 48.39 1.62 69.03
LAB*LABb 48.39 1.62 69.03
LAB*LABc 48.39 1.62 69.03

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.5 0.543 0.75 (0.0)
olv4* 1.0 0.957 0.75 0.75
cmyn4* 0.0 0.043 0.25 0.25
standard and adapted CIELAB
LAB*LAB 45.32 0.5 19.8
LAB*LABa 45.32 0.5 19.8
LAB*LABb 45.32 0.5 19.8
LAB*LABc 45.32 0.5 19.8

relative Inform. Technology (IT)
olv3* 0.5 0.413 0.0 (1.0)
cmyn3* 0.5 0.245 0.246
olv4* 1.0 0.957 0.75 0.75
cmyn4* 0.0 0.043 0.25 0.25
standard and adapted CIELAB
LAB*LAB 43.33 0.0 39.9
LAB*LABa 43.33 0.0 39.9
LAB*LABb 43.33 0.0 39.9
LAB*LABc 43.33 0.0 39.9

relative Inform. Technology (IT)
olv3* 0.5 0.375 0.25 0.246
cmyn3* 0.5 0.245 0.246
olv4* 1.0 0.957 0.75 0.75
cmyn4* 0.0 0.043 0.25 0.25
standard and adapted CIELAB
LAB*LAB 43.33 0.0 39.9
LAB*LABa 43.33 0.0 39.9
LAB*LABb 43.33 0.0 39.9
LAB*LABc 43.33 0.0 39.9

relative Inform. Technology (IT)
olv3* 0.5 0.337 0.75 (0.0)
cmyn3* 0.5 0.245 0.246
olv4* 1.0 0.957 0.75 0.75
cmyn4* 0.0 0.043 0.25 0.25
standard and adapted CIELAB
LAB*LAB 43.33 0.0 39.9
LAB*LABa 43.33 0.0 39.9
LAB*LABb 43.33 0.0 39.9
LAB*LABc 43.33 0.0 39.9

relative Inform. Technology (IT)
olv3* 0.5 0.329 1.0 (0.0)
cmyn3* 0.5 0.245 0.5 (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 48.39 1.62 69.03
LAB*LABa 48.39 1.62 69.03
LAB*LABb 48.39 1.62 69.03
LAB*LABc 48.39 1.62 69.03

PE500-7, 5 step scales for constant CIELAB hue 88/360 = 0.245 (left)

5 step scales for constant CIELAB hue 89/360 = 0.246 (right)

BAM-test chart PE50; Colorimetric systems ORS18 & ORS18

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

input: $olv^*setrgbcolor$

output: Startup (S) data dependend

Input: Colorimetric Offset Reflective System ORS18

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

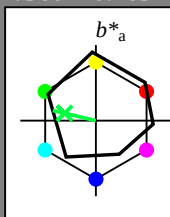
lab^*tch and lab^*nch

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*	1.0	1.0	1.0	(1.0)
olv8*	0.0	0.0	0.0	(0.0)
olv9*	1.0	1.0	1.0	(1.0)
olv10*	0.0	0.0	0.0	(0.0)
olv11*	1.0	1.0	1.0	(1.0)
olv12*	0.0	0.0	0.0	(0.0)
olv13*	1.0	1.0	1.0	(1.0)
olv14*	0.0	0.0	0.0	(0.0)
olv15*	1.0	1.0	1.0	(1.0)
olv16*	0.0	0.0	0.0	(0.0)
olv17*	1.0	1.0	1.0	(1.0)
olv18*	0.0	0.0	0.0	(0.0)
olv19*	1.0	1.0	1.0	(1.0)
olv20*	0.0	0.0	0.0	(0.0)
olv21*	1.0	1.0	1.0	(1.0)
olv22*	0.0	0.0	0.0	(0.0)
olv23*	1.0	1.0	1.0	(1.0)
olv24*	0.0	0.0	0.0	(0.0)
olv25*	1.0	1.0	1.0	(1.0)
olv26*	0.0	0.0	0.0	(0.0)
olv27*	1.0	1.0	1.0	(1.0)
olv28*	0.0	0.0	0.0	(0.0)
olv29*	1.0	1.0	1.0	(1.0)
olv30*	0.0	0.0	0.0	(0.0)
olv31*	1.0	1.0	1.0	(1.0)
olv32*	0.0	0.0	0.0	(0.0)
olv33*	1.0	1.0	1.0	(1.0)
olv34*	0.0	0.0	0.0	(0.0)
olv35*	1.0	1.0	1.0	(1.0)
olv36*	0.0	0.0	0.0	(0.0)
olv37*	1.0	1.0	1.0	(1.0)
olv38*	0.0	0.0	0.0	(0.0)
olv39*	1.0	1.0	1.0	(1.0)
olv40*	0.0	0.0	0.0	(0.0)
olv41*	1.0	1.0	1.0	(1.0)
olv42*	0.0	0.0	0.0	(0.0)
olv43*	1.0	1.0	1.0	(1.0)
olv44*	0.0	0.0	0.0	(0.0)
olv45*	1.0	1.0	1.0	(1.0)
olv46*	0.0	0.0	0.0	(0.0)
olv47*	1.0	1.0	1.0	(1.0)
olv48*	0.0	0.0	0.0	(0.0)
olv49*	1.0	1.0	1.0	(1.0)
olv50*	0.0	0.0	0.0	(0.0)
olv51*	1.0	1.0	1.0	(1.0)
olv52*	0.0	0.0	0.0	(0.0)
olv53*	1.0	1.0	1.0	(1.0)
olv54*	0.0	0.0	0.0	(0.0)
olv55*	1.0	1.0	1.0	(1.0)
olv56*	0.0	0.0	0.0	(0.0)
olv57*	1.0	1.0	1.0	(1.0)
olv58*	0.0	0.0	0.0	(0.0)
olv59*	1.0	1.0	1.0	(1.0)
olv60*	0.0	0.0	0.0	(0.0)
olv61*	1.0	1.0	1.0	(1.0)
olv62*	0.0	0.0	0.0	(0.0)
olv63*	1.0	1.0	1.0	(1.0)
olv64*	0.0	0.0	0.0	(0.0)
olv65*	1.0	1.0	1.0	(1.0)
olv66*	0.0	0.0	0.0	(0.0)
olv67*	1.0	1.0	1.0	(1.0)
olv68*	0.0	0.0	0.0	(0.0)
olv69*	1.0	1.0	1.0	(1.0)
olv70*	0.0	0.0	0.0	(0.0)
olv71*	1.0	1.0	1.0	(1.0)
olv72*	0.0	0.0	0.0	(0.0)
olv73*	1.0	1.0	1.0	(1.0)
olv74*	0.0	0.0	0.0	(0.0)
olv75*	1.0	1.0	1.0	(1.0)
olv76*	0.0	0.0	0.0	(0.0)
olv77*	1.0	1.0	1.0	(1.0)
olv78*	0.0	0.0	0.0	(0.0)
olv79*	1.0	1.0	1.0	(1.0)
olv80*	0.0	0.0	0.0	(0.0)
olv81*	1.0	1.0	1.0	(1.0)
olv82*	0.0	0.0	0.0	(0.0)
olv83*	1.0	1.0	1.0	(1.0)
olv84*	0.0	0.0	0.0	(0.0)
olv85*	1.0	1.0	1.0	(1.0)
olv86*	0.0	0.0	0.0	(0.0)
olv87*	1.0	1.0	1.0	(1.0)
olv88*	0.0	0.0	0.0	(0.0)
olv89*	1.0	1.0	1.0	(1.0)
olv90*	0.0	0.0	0.0	(0.0)
olv91*	1.0	1.0	1.0	(1.0)
olv92*	0.0	0.0	0.0	(0.0)
olv93*	1.0	1.0	1.0	(1.0)
olv94*	0.0	0.0	0.0	(0.0)
olv95*	1.0	1.0	1.0	(1.0)
olv96*	0.0	0.0	0.0	(0.0)
olv97*	1.0	1.0	1.0	(1.0)
olv98*	0.0	0.0	0.0	(0.0)
olv99*	1.0	1.0	1.0	(1.0)
olv100*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.815	(1.0)
olv4*	0.25	0.0	0.185	(0.0)
olv5*	0.75	1.0	0.815	(1.0)
olv6*	0.25	0.0	0.185	(0.0)
olv7*	0.75	1.0	0.815	(1.0)
olv8*	0.25	0.0	0.185	(0.0)
olv9*	0.75	1.0	0.815	(1.0)
olv10*	0.25	0.0	0.185	(0.0)
olv11*	0.75	1.0	0.815	(1.0)
olv12*	0.25	0.0	0.185	(0.0)
olv13*	0.75	1.0	0.815	(1.0)
olv14*	0.25	0.0	0.185	(0.0)
olv15*	0.75	1.0	0.815	(1.0)
olv16*	0.25	0.0	0.185	(0.0)
olv17*	0.75	1.0	0.815	(1.0)
olv18*	0.25	0.0	0.185	(0.0)
olv19*	0.75	1.0	0.815	(1.0)
olv20*	0.25	0.0	0.185	(0.0)
olv21*	0.75	1.0	0.815	(1.0)
olv22*	0.25	0.0	0.185	(0.0)
olv23*	0.75	1.0	0.815	(1.0)
olv24*	0.25	0.0	0.185	(0.0)
olv25*	0.75	1.0	0.815	(1.0)
olv26*	0.25	0.0	0.185	(0.0)
olv27*	0.75	1.0	0.815	(1.0)
olv28*	0.25	0.0	0.185	(0.0)
olv29*	0.75	1.0	0.815	(1.0)
olv30*	0.25	0.0	0.185	(0.0)
olv31*	0.75	1.0	0.815	(1.0)
olv32*	0.25	0.0	0.185	(0.0)
olv33*	0.75	1.0	0.815	(1.0)
olv34*	0.25	0.0	0.185	(0.0)
olv35*	0.75	1.0	0.815	(1.0)
olv36*	0.25	0.0	0.185	(0.0)
olv37*	0.75	1.0	0.815	(1.0)
olv38*	0.25	0.0	0.185	(0.0)
olv39*	0.75	1.0	0.815	(1.0)
olv40*	0.25	0.0	0.185	(0.0)
olv41*	0.75	1.0	0.815	(1.0)
olv42*	0.25	0.0	0.185	(0.0)
olv43*	0.75	1.0	0.815	(1.0)
olv44*	0.25	0.0	0.185	(0.0)
olv45*	0.75	1.0	0.815	(1.0)
olv46*	0.25	0.0	0.185	(0.0)
olv47*	0.75	1.0	0.815	(1.0)
olv48*	0.25	0.0	0.185	(0.0)
olv49*	0.75	1.0	0.815	(1.0)
olv50*	0.25	0.0	0.185	(0.0)
olv51*	0.75	1.0	0.815	(1.0)
olv52*	0.25	0.0	0.185	(0.0)
olv53*	0.75	1.0	0.815	(1.0)
olv54*	0.25	0.0	0.185	(0.0)
olv55*	0.75	1.0	0.815	(1.0)
olv56*	0.25	0.0	0.185	(0.0)
olv57*	0.75	1.0	0.815	(1.0)
olv58*	0.25	0.0	0.185	(0.0)
olv59*	0.75	1.0	0.815	(1.0)
olv60*	0.25	0.0	0.185	(0.0)
olv61*	0.75	1.0	0.815	(1.0)
olv62*	0.25	0.0	0.185	(0.0)
olv63*	0.75	1.0	0.815	(1.0)
olv64*	0.25	0.0	0.185	(0.0)
olv65*	0.75	1.0	0.815	(1.0)
olv66*	0.25	0.0	0.185	(0.0)
olv67*	0.75	1.0	0.815	(1.0)
olv68*	0.25	0.0	0.185	(0.0)
olv69*	0.75	1.0	0.815	(1.0)
olv70*	0.25	0.0	0.185	(0.0)
olv71*	0.75	1.0	0.815	(1.0)
olv72*	0.25	0.0	0.185	(0.0)
olv73*	0.75	1.0	0.815	(1.0)
olv74*	0.25	0.0	0.185	(0.0)
olv75*	0.75	1.0	0.815	(1.0)
olv76*	0.25	0.0	0.185	(0.0)
olv77*	0.75	1.0	0.815	(1.0)
olv78*	0.25	0.0	0.185	(0.0)
olv79*	0.75	1.0	0.815	(1.0)
olv80*	0.25	0.0	0.185	(0.0)
olv81*	0.75	1.0	0.815	(1.0)
olv82*	0.25	0.0	0.185	(0.0)
olv83*	0.75	1.0	0.815	(1.0)
olv84*	0.25	0.0	0.185	(0.0)
olv85*	0.75	1.0	0.815	(1.0)
olv86*	0.25	0.0	0.185	(0.0)
olv87*	0.75	1.0	0.815	(1.0)
olv88*	0.25	0.0	0.185	(0.0)
olv89*	0.75	1.0	0.815	(1.0)
olv90*	0.25	0.0	0.185	(0.0)
olv91*	0.75	1.0	0.815	(1.0)
olv92*	0.25	0.0	0.185	(0.0)
olv93*	0.75	1.0	0.815	(1.0)
olv94*	0.25	0.0	0.185	(0.0)
olv95*	0.75	1.0	0.815	(1.0)
olv96*	0.25	0.0	0.185	(0.0)
olv97*	0.75	1.0	0.815	(1.0)
olv98*	0.25	0.0	0.185	(0.0)
olv99*	0.75	1.0	0.815	(1.0)
olv100*	0.25	0.0	0.185	(0.0)

relative Inform. Technology (IT)				
olv3*	0.5	1.0	0.63	(1.0)
cmyn3*	0.5	0.0	0.37	(0.0)
olv4*	0.5	1.0	0.63	(1.0)
cmyn4*	0.5	0.0	0.37	(0.0)
standard and adapted CIELAB				
LAB*LAB	73.97	-28.59	9.98	
LAB*Lab _a	73.97	-48.49	6.72	
LAB*TC _h A	75.0	29.28	166.74	
relative CIELAB lab*				
lab*lab	0.722	-0.486	0.115	
lab*nc _h	0.75	0.5	0.463	
lab*nc _h	0.0	0.5	0.463	
relative Natural Colour (NC)				
lab*I _{tr}	0.722	-0.499	0.0	
lab*tc _e	0.75	0.5	0.5	
lab*nc _E	0.0	0.5	g00b	

Input: Colorimetric Offset Reflective System ORS18

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

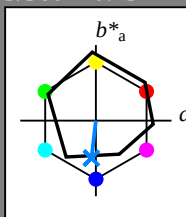
lab^*tch and lab^*nch

D50: hue B

LCH*Ma: 42 47 263

olv*Ma: 0.0 0.52 1.0

triangle lightness t^*



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

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.78 0.13 2.11
LAB*LABa 56.78 0.0 0.0
LAB*LABb 50.00 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 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.44 -0.67 0.82
LAB*LABa 37.44 0.0 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 0.0 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)
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*LABa 18.1 0.0 0.0
LAB*LABb 0.00 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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.00 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

ORS18; adapted (a) CIELAB data

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

%Regularity

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

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

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 68.67 -2.73 -20.23
LAB*LABa 68.67 -2.73 -20.23
LAB*LABb 68.67 -2.73 -20.23

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* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 49.33 -2.46 -21.53
LAB*LABa 49.33 -2.46 -21.53
LAB*LABb 49.33 -2.46 -21.53

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)
cmyn3* 1.0 1.0 1.0 (1.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 29.99 -2.69 -23.15
LAB*LABa 29.99 -2.69 -23.15
LAB*LABb 29.99 -2.69 -23.15

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 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.00 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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.00 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

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 264/360 = 0.733$

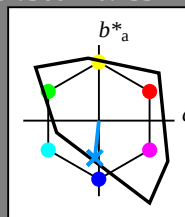
lab^*tch and lab^*nch

D50: hue B

LCH*Ma: 61 54 264

olv*Ma: 0.0 0.59 1.0

triangle lightness t^*



relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 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 71.57 0.0 0.0

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

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LABa 47.72 0.0 0.0
LAB*LABb 47.72 0.0 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*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* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 23.87 0.0 0.0
LAB*LABa 23.87 0.0 0.0
LAB*LABb 23.87 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*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)
cmyn3* 1.0 1.0 1.0 (1.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.00 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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.00 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

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* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 86.78 -1.44 -13.42
LAB*LABa 86.78 -1.44 -13.42
LAB*LABb 86.78 -1.44 -13.42

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* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 62.93 -1.43 -13.43
LAB*LABa 62.93 -1.43 -13.43
LAB*LABb 62.93 -1.43 -13.43

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)
cmyn3* 1.0 1.0 1.0 (1.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 4.31 -2.87 -26.87
LAB*LABa 4.31 -2.87 -26.87
LAB*LABb 4.31 -2.87 -26.87

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* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 23.87 0.0 0.0
LAB*LABa 23.87 0.0 0.0
LAB*LABb 23.87 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*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)
cmyn3* 1.0 1.0 1.0 (1.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.00 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