

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = \text{lab}^*h = 38/360 = 0.105$

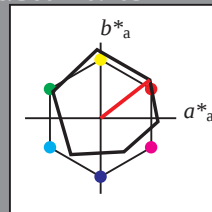
lab^*tch and lab^*nch

D50: hue O

LCH*Ma: 48 82 38

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



%Gamut

$u^*_{\text{rel}} = 94$

%Regularity

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

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

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

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = \text{lab}^*h = 38/360 = 0.107$

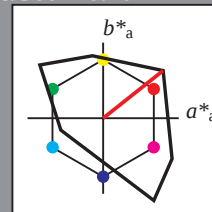
lab^*tch and lab^*nch

D50: hue O

LCH*Ma: 54 101 38

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



%Gamut

$u^*_{\text{rel}} = 156$

%Regularity

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

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

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

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 1.0
cmyn4* 0.0 0.0 0.0 0.0

standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 -

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

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LABa 47.72 0.0 0.0
LAB*TCHa 50.0 0.01 -

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

relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*tce 0.5 0.0 -
lab*nce 0.5 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 0.03 0.0 0.0
LAB*LABa 0.03 0.0 0.0
LAB*TCHa 0.01 0.01 -

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

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

relative Inform. Technology (IT)
olvi3* 1.0 0.5 0.5 (1.0)
cmyn3* 0.0 0.5 0.5 (0.0)
olvi4* 1.0 0.5 0.5 1.0
cmyn4* 0.0 0.5 0.5 0.0
standard and adapted CIELAB
LAB*LAB 74.79 39.67 31.49
LAB*LABa 74.79 39.67 31.49
LAB*TCHa 75.0 50.65 38.44

relative CIELAB lab*
lab*lab 0.784 0.392 0.311
lab*tch 0.75 0.5 0.107
lab*nch 0.0 0.5 0.107
relative Natural Colour (NC)
lab*lrj 0.784 0.479 0.142
lab*tce 0.75 0.5 0.046
lab*nce 0.0 0.5 r18j

relative Inform. Technology (IT)
olvi3* 0.5 0.0 0.0 (1.0)
cmyn3* 0.5 1.0 1.0 (0.0)
olvi4* 1.0 0.5 0.5 0.5
cmyn4* 0.0 0.5 0.5 0.5
standard and adapted CIELAB
LAB*LAB 27.1 39.67 31.49
LAB*LABa 27.1 39.67 31.49
LAB*TCHa 25.01 50.65 38.44

relative CIELAB lab*
lab*lab 0.284 0.392 0.311
lab*tch 0.25 0.5 0.107
lab*nch 0.5 0.5 0.107
relative Natural Colour (NC)
lab*lrj 0.284 0.479 0.142
lab*tce 0.25 0.5 0.046
lab*nce 0.5 0.5 r18j

relative Inform. Technology (IT)
olvi3* 1.0 0.0 0.0 (1.0)
cmyn3* 0.0 1.0 1.0 (0.0)
olvi4* 1.0 0.0 0.0 1.0
cmyn4* 0.0 1.0 1.0 0.0
standard and adapted CIELAB
LAB*LAB 54.19 79.34 62.99
LAB*LABa 54.19 79.34 62.99
LAB*TCHa 50.0 101.31 38.44

relative CIELAB lab*
lab*lab 0.568 0.783 0.622
lab*tch 0.5 1.0 0.107
lab*nch 0.0 1.0 0.107
relative Natural Colour (NC)
lab*lrj 0.568 0.958 0.285
lab*tce 0.5 1.0 0.046
lab*nce 0.0 1.0 r18j

blackness n^*
chromaticness c^*

0,25 0,50 $n^* = 0,50$ 0,75 1,00

$n^* = 1,0$

QE000-7, 3 step scales for constant CIELAB hue 38/360 = 0.105 (left)



BAM-test chart QE00; Colorimetric systems ORS18 & TLS00

D50: 3 step colour scales and coordinate data for 10 hues

3 step scales for constant CIELAB hue 38/360 = 0.107 (right)

input: $\text{cmy0}^* \text{ setcmykcolor}$

output: $\text{cmy0}^* / 000n^* \text{ setcmykcolor}$



Input: Colorimetric Offset Reflective System ORS18

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

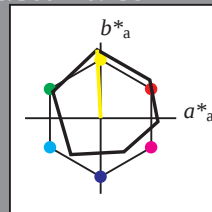
lab^*tch and lab^*nch

D50: hue Y

LCH*Ma: 91 91 93

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 94$

%Regularity

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

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

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

Output: Colorimetric Television Luminous System TLS00

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

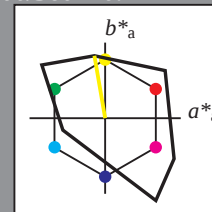
lab^*tch and lab^*nch

D50: hue Y

LCH*Ma: 93 84 100

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 156$

%Regularity

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

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

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

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 1.0
cmyn4* 0.0 0.0 0.0 0.0

standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 -

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

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LABa 47.72 0.0 0.0
LAB*TCHa 50.0 0.01 -

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

relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*tce 0.5 0.0 -
lab*nce 0.5 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 0.03 0.0 0.0
LAB*LABa 0.03 0.0 0.0
LAB*TCHa 0.01 0.01 -

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

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

relative Inform. Technology (IT)
olvi3* 1.0 1.0 0.5 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olvi4* 1.0 1.0 0.5 1.0
cmyn4* 0.0 0.0 0.5 0.0

standard and adapted CIELAB
LAB*LAB 94.42 -7.08 41.29
LAB*LABa 94.42 -7.08 41.29
LAB*TCHa 75.0 41.89 99.75

relative CIELAB lab*
lab*lab 0.99 -0.084 0.493
lab*tch 0.75 0.5 0.277
lab*nch 0.0 0.5 0.277

relative Natural Colour (NC)
lab*lrj 0.99 -0.114 0.487
lab*tce 0.75 0.5 0.287
lab*nce 0.0 0.5 j14g

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.0 (1.0)
cmyn3* 0.5 0.5 1.0 (0.0)
olvi4* 1.0 1.0 0.5 0.5
cmyn4* 0.0 0.0 0.5 0.5

standard and adapted CIELAB
LAB*LAB 46.73 -7.08 41.29
LAB*LABa 46.73 -7.08 41.29
LAB*TCHa 25.01 41.89 99.75

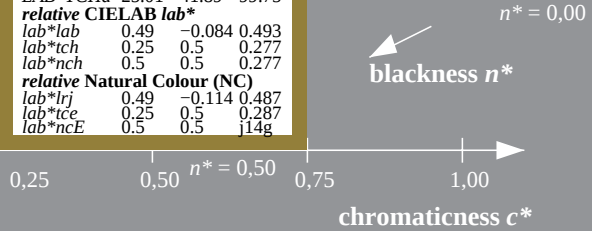
relative CIELAB lab*
lab*lab 0.49 -0.084 0.493
lab*tch 0.25 0.5 0.277
lab*nch 0.5 0.5 0.277

relative Natural Colour (NC)
lab*lrj 0.49 -0.114 0.487
lab*tce 0.25 0.5 0.287
lab*nce 0.5 0.5 j14g

relative Inform. Technology (IT)
olvi3* 1.0 1.0 0.0 (1.0)
cmyn3* 0.0 0.0 1.0 (0.0)
olvi4* 1.0 1.0 0.0 1.0
cmyn4* 0.0 0.0 1.0 0.0
standard and adapted CIELAB
LAB*LAB 93.43 -14.18 82.57
LAB*LABa 93.43 -14.18 82.57
LAB*TCHa 50.0 83.78 99.75

relative CIELAB lab*
lab*lab 0.979 -0.168 0.985
lab*tch 0.5 1.0 0.277
lab*nch 0.0 1.0 0.277

relative Natural Colour (NC)
lab*lrj 0.979 -0.229 0.973
lab*tce 0.5 1.0 0.287
lab*nce 0.0 1.0 j14g



QE000-7, 3 step scales for constant CIELAB hue 93/360 = 0.258 (left)

3 step scales for constant CIELAB hue 100/360 = 0.277 (right)

BAM-test chart QE00; Colorimetric systems ORS18 & TLS00

D50: 3 step colour scales and coordinate data for 10 hues

input: $cmy0^* \text{ setcmykcolor}$

output: $cmy0^* / 000n^* \text{ setcmykcolor}$

Input: Colorimetric Offset Reflective System ORS18

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

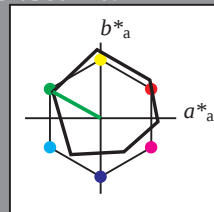
lab^*tch and lab^*nch

D50: hue L

LCH*Ma: 51 72 151

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 94$

%Regularity

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

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

ORS18; adapted (a) CIELAB data					
$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
OMa 47.94	65.05	50.54	82.38	38	
YMa 91.0	-4.72	90.58	90.7	93	
LMa 50.9	-63.18	34.98	72.22	151	
CMa 56.99	-39.34	-48.1	62.16	231	
VMa 25.72	30.89	-44.4	54.09	305	
MMa 49.99	75.76	-4.64	75.9	356	
NMa 18.09	0.0	0.0	0.0	0	
WMa 95.46	0.0	0.0	0.0	0	
RCIE 41.88	61.66	30.69	68.88	26	
JCIE 81.97	2.02	67.79	67.82	88	
GCIE 51.62	-41.32	9.74	42.46	167	
BCIE 29.2	-5.79	-49.61	49.96	263	

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 140/360 = 0.389$

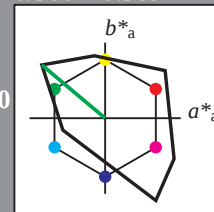
lab^*tch and lab^*nch

D50: hue L

LCH*Ma: 83 109 140

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 156$

%Regularity

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

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

TLS00; adapted (a) CIELAB data					
$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
OMa 54.19	79.36	63.0	101.33	38	
YMa 93.44	-14.18	82.59	83.8	100	
LMa 82.82	-83.73	70.41	109.41	140	
CMa 85.22	-55.9	-15.78	58.1	196	
VMa 25.61	67.05	-108.87	127.87	302	
MMa 58.76	91.18	-53.69	105.82	330	
NMa 0.01	0.0	0.0	0.0	0	
WMa 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	

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 1.0
cmyn4* 0.0 0.0 0.0 0.0

standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 -

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

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LABa 47.72 0.0 0.0
LAB*TCHa 50.0 0.01 -

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

relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*tce 0.5 0.0 -
lab*nce 0.5 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 0.03 0.0 0.0
LAB*LABa 0.03 0.0 0.0
LAB*TCHa 0.01 0.01 -

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

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

relative Inform. Technology (IT)
olvi3* 0.5 1.0 0.5 (1.0)
cmyn3* 0.5 0.0 0.5 (0.0)
olvi4* 0.5 1.0 0.5 1.0
cmyn4* 0.5 0.0 0.5 0.0

standard and adapted CIELAB
LAB*LAB 89.11 -41.85 35.2
LAB*LABa 89.11 -41.85 35.2
LAB*TCHa 75.0 54.69 139.94

relative CIELAB lab*
lab*lab 0.934 -0.382 0.322
lab*tch 0.75 0.5 0.389
lab*nch 0.0 0.5 0.389

relative Natural Colour (NC)
lab*lrj 0.934 -0.436 0.242
lab*tce 0.75 0.5 0.419
lab*nce 0.0 0.5 0.67g

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.0 (1.0)
cmyn3* 0.5 0.5 1.0 (0.0)
olvi4* 0.5 1.0 0.5 0.5
cmyn4* 0.5 0.0 0.5 0.5

standard and adapted CIELAB
LAB*LAB 41.42 -41.85 35.2
LAB*LABa 41.42 -41.85 35.2
LAB*TCHa 25.01 54.69 139.94

relative CIELAB lab*
lab*lab 0.434 -0.382 0.322
lab*tch 0.25 0.5 0.389
lab*nch 0.5 0.5 0.389

relative Natural Colour (NC)
lab*lrj 0.434 -0.436 0.242
lab*tce 0.25 0.5 0.419
lab*nce 0.5 0.5 0.67g

relative Inform. Technology (IT)
olvi3* 0.0 1.0 0.0 (1.0)
cmyn3* 1.0 0.0 1.0 (0.0)
olvi4* 0.0 1.0 0.0 1.0
cmyn4* 1.0 0.0 1.0 0.0
standard and adapted CIELAB
LAB*LAB 82.81 -83.71 70.4
LAB*LABa 82.81 -83.71 70.4
LAB*TCHa 50.0 109.39 139.94

relative CIELAB lab*
lab*lab 0.868 -0.764 0.643
lab*tch 0.5 1.0 0.389
lab*nch 0.0 1.0 0.389

relative Natural Colour (NC)
lab*lrj 0.868 -0.874 0.484
lab*tce 0.5 1.0 0.419
lab*nce 0.0 1.0 0.67g

QE000-7, 3 step scales for constant CIELAB hue 151/360 = 0.42 (left)

3 step scales for constant CIELAB hue 140/360 = 0.389 (right)

BAM-test chart QE00; Colorimetric systems ORS18 & TLS00

D50: 3 step colour scales and coordinate data for 10 hues

input: $cmv0^* setcmykcolor$

output: $cmv0^* / 000n^* setcmykcolor$

Input: Colorimetric Offset Reflective System ORS18

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

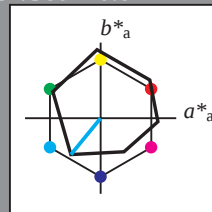
lab^*tch and lab^*nch

D50: hue C

LCH*Ma: 57 62 231

ol v^* Ma: 0.0 1.0 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 94$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O M_a	47.94	65.05	50.54	82.38	38
Y M_a	91.0	-4.72	90.58	90.7	93
L M_a	50.9	-63.18	34.98	72.22	151
C M_a	56.99	-39.34	-48.1	62.16	231
V M_a	25.72	30.89	-44.4	54.09	305
M M_a	49.99	75.76	-4.64	75.9	356
N M_a	18.09	0.0	0.0	0.0	0
W M_a	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

Output: Colorimetric Television Luminous System TLS00

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

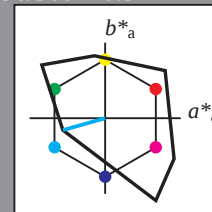
lab^*tch and lab^*nch

D50: hue C

LCH*Ma: 85 58 196

ol v^* Ma: 0.0 1.0 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 156$

%Regularity

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

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

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O M_a	54.19	79.36	63.0	101.33	38
Y M_a	93.44	-14.18	82.59	83.8	100
L M_a	82.82	-83.73	70.41	109.41	140
C M_a	85.22	-55.9	-15.78	58.1	196
V M_a	25.61	67.05	-108.87	127.87	302
M M_a	58.76	91.18	-53.69	105.82	330
N M_a	0.01	0.0	0.0	0.0	0
W M_a	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

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 1.0
cmyn4* 0.0 0.0 0.0 0.0

standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 -

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

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LABa 47.72 0.0 0.0
LAB*TCHa 50.0 0.01 -

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

relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*tce 0.5 0.0 -
lab*nce 0.5 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 0.03 0.0 0.0
LAB*LABa 0.03 0.0 0.0
LAB*TCHa 0.01 0.01 -

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

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

relative Inform. Technology (IT)
olvi3* 0.5 1.0 1.0 (1.0)
cmyn3* 0.5 0.0 0.0 (0.0)
olvi4* 0.5 1.0 1.0 1.0
cmyn4* 0.5 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 90.31 -27.94 -7.88
LAB*LABa 90.31 -27.94 -7.88
LAB*TCHa 75.0 29.04 195.77

relative CIELAB lab*
lab*lab 0.947 -0.48 -0.135
lab*tch 0.75 0.5 0.544
lab*nch 0.0 0.5 0.544

relative Natural Colour (NC)
lab*lrj 0.947 -0.439 -0.237
lab*tce 0.75 0.5 0.579
lab*nce 0.0 0.5 g31b

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.5 (1.0)
cmyn3* 1.0 0.5 0.5 (0.0)
olvi4* 0.5 1.0 1.0 0.5
cmyn4* 0.5 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 42.62 -27.94 -7.88
LAB*LABa 42.62 -27.94 -7.88
LAB*TCHa 25.01 29.04 195.77

relative CIELAB lab*
lab*lab 0.447 -0.48 -0.135
lab*tch 0.25 0.5 0.544
lab*nch 0.5 0.5 0.544

relative Natural Colour (NC)
lab*lrj 0.447 -0.439 -0.237
lab*tce 0.25 0.5 0.579
lab*nce 0.5 0.5 g31b

relative Inform. Technology (IT)
olvi3* 0.0 1.0 1.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 0.0 1.0 1.0 1.0
cmyn4* 1.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 85.21 -55.89 -15.78
LAB*LABa 85.21 -55.89 -15.78
LAB*TCHa 50.0 58.09 195.77

relative CIELAB lab*
lab*lab 0.893 -0.961 -0.271
lab*tch 0.5 1.0 0.544
lab*nch 0.0 1.0 0.544

relative Natural Colour (NC)
lab*lrj 0.893 -0.878 -0.475
lab*tce 0.5 1.0 0.579
lab*nce 0.0 1.0 g31b

QE000-7, 3 step scales for constant CIELAB hue 231/360 = 0.641 (left)

3 step scales for constant CIELAB hue 196/360 = 0.544 (right)

BAM-test chart QE00; Colorimetric systems ORS18 & TLS00

D50: 3 step colour scales and coordinate data for 10 hues

input: $cmY0^* setcmykcolor$

output: $cmY0^* / 000n^* setcmykcolor$

Input: Colorimetric Offset Reflective System ORS18

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

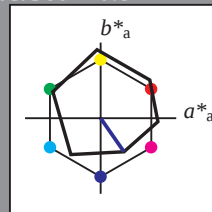
lab^*tch and lab^*nch

D50: hue V

LCH*Ma: 26 54 305

olv*Ma: 0.0 0.0 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 94$

%Regularity

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

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

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

Output: Colorimetric Television Luminous System TLS00

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

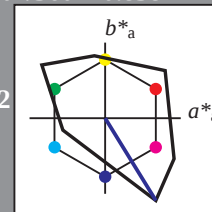
lab^*tch and lab^*nch

D50: hue V

LCH*Ma: 26 128 302

olv*Ma: 0.0 0.0 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 156$

%Regularity

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

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

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

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0
cmyn4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

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

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	-
lab*nch	0.0	0.0	-

relative Natural Colour (NC)

lab*lrj	1.0	0.0	0.0
lab*tce	1.0	0.0	-
lab*nce	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*TCHa	75.0	63.92	301.63

relative CIELAB lab*

lab*lab	0.634	0.262	-0.425
lab*tch	0.75	0.5	0.838
lab*nch	0.0	0.5	0.838

relative Natural Colour (NC)

lab*lrj	0.634	0.231	-0.442
lab*tce	0.75	0.5	0.827
lab*nce	0.0	0.5	b30r

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LABa	47.72	0.0	0.0
LAB*TCHa	50.0	0.01	-

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*tch	0.5	0.0	-
lab*nch	0.5	0.0	-

relative Natural Colour (NC)

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	0.0	-

relative Inform. Technology (IT)

olvi3*	0.0	0.0	1.0	(1.0)
cmyn3*	1.0	1.0	0.0	(0.0)
olvi4*	0.0	0.0	1.0	1.0
cmyn4*	1.0	1.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	25.61	67.04	-108.85
LAB*LABa	25.61	67.04	-108.85
LAB*TCHa	50.0	127.84	301.63

relative CIELAB lab*

lab*lab	0.268	0.524	-0.85
lab*tch	0.5	1.0	0.838
lab*nch	0.0	1.0	0.838

relative Natural Colour (NC)

lab*lrj	0.268	0.462	-0.885
lab*tce	0.5	1.0	0.827
lab*nce	0.0	1.0	b30r

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	12.82	33.52	-54.42
LAB*LABa	12.82	33.52	-54.42
LAB*TCHa	25.01	63.92	301.63

relative CIELAB lab*

lab*lab	0.134	0.262	-0.425
lab*tch	0.25	0.5	0.838
lab*nch	0.5	0.5	0.838

relative Natural Colour (NC)

lab*lrj	0.134	0.231	-0.442
lab*tce	0.25	0.5	0.827
lab*nce	0.5	0.5	b30r

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

input: $cmv0^* setcmykcolor$

output: $cmv0^* / 000n^* setcmykcolor$

BAM-test chart QE00; Colorimetric systems ORS18 & TLS00

D50: 3 step colour scales and coordinate data for 10 hues

Input: Colorimetric Offset Reflective System ORS18

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

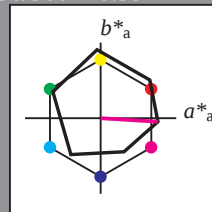
lab^*tch and lab^*nch

D50: hue M

LCH*Ma: 50 76 356

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 94$

%Regularity

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

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

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

Output: Colorimetric Television Luminous System TLS00

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

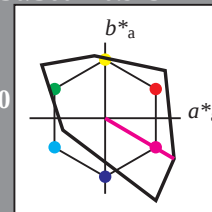
lab^*tch and lab^*nch

D50: hue M

LCH*Ma: 59 106 330

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 156$

%Regularity

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

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

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

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 1.0
cmyn4* 0.0 0.0 0.0 0.0

standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 -

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

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5

standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LABa 47.72 0.0 0.0
LAB*TCHa 50.0 0.01 -

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

relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*tce 0.5 0.0 -
lab*nce 0.5 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0

standard and adapted CIELAB
LAB*LAB 0.03 0.0 0.0
LAB*LABa 0.03 0.0 0.0
LAB*TCHa 0.01 0.01 -

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

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

relative Inform. Technology (IT)
olvi3* 1.0 0.5 1.0 (1.0)
cmyn3* 0.0 0.5 0.0 (0.0)
olvi4* 1.0 0.5 1.0 1.0
cmyn4* 0.0 0.5 0.0 0.0

standard and adapted CIELAB
LAB*LAB 77.08 45.58 -26.83
LAB*LABa 77.08 45.58 -26.83
LAB*TCHa 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*lrj 0.808 0.371 -0.334
lab*tce 0.75 0.5 0.883
lab*nce 0.0 0.5 b53r

relative Inform. Technology (IT)
olvi3* 0.5 0.0 0.5 (1.0)
cmyn3* 0.5 1.0 0.5 (0.0)
olvi4* 1.0 0.5 1.0 0.5
cmyn4* 0.0 0.5 0.0 0.5

standard and adapted CIELAB
LAB*LAB 29.39 45.58 -26.83
LAB*LABa 29.39 45.58 -26.83
LAB*TCHa 25.01 52.9 329.5

relative CIELAB lab*
lab*lab 0.308 0.431 -0.253
lab*tch 0.25 0.5 0.915
lab*nch 0.5 0.5 0.915

relative Natural Colour (NC)
lab*lrj 0.308 0.371 -0.334
lab*tce 0.25 0.5 0.883
lab*nce 0.5 0.5 b53r

relative Inform. Technology (IT)
olvi3* 1.0 0.0 1.0 (1.0)
cmyn3* 0.0 1.0 0.0 (0.0)
olvi4* 1.0 0.0 1.0 1.0
cmyn4* 0.0 1.0 0.0 0.0

standard and adapted CIELAB
LAB*LAB 58.76 91.16 -53.68
LAB*LABa 58.76 91.16 -53.68
LAB*TCHa 50.0 105.8 329.5

relative CIELAB lab*
lab*lab 0.616 0.861 -0.506
lab*tch 0.5 1.0 0.915
lab*nch 0.0 1.0 0.915

relative Natural Colour (NC)
lab*lrj 0.616 0.742 -0.669
lab*tce 0.5 1.0 0.883
lab*nce 0.0 1.0 b53r

QE000-7, 3 step scales for constant CIELAB hue 356/360 = 0.99 (left)

3 step scales for constant CIELAB hue 330/360 = 0.915 (right)

BAM-test chart QE00; Colorimetric systems ORS18 & TLS00

D50: 3 step colour scales and coordinate data for 10 hues

input: $cmY0^* setcmykcolor$

output: $cmY0^* / 000n^* setcmykcolor$

Input: Colorimetric Offset Reflective System ORS18

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

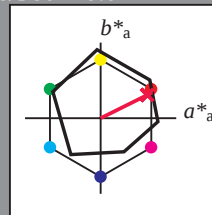
lab^*tch and lab^*nch

D50: hue R

LCH*Ma: 49 76 26

olv*Ma: 1.0 0.0 0.3

triangle lightness t^*



%Gamut

$u^*_{rel} = 94$

%Regularity

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

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

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

Output: Colorimetric Television Luminous System TLS00

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

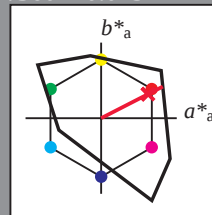
lab^*tch and lab^*nch

D50: hue R

LCH*Ma: 55 92 27

olv*Ma: 1.0 0.0 0.18

triangle lightness t^*



%Gamut

$u^*_{rel} = 156$

%Regularity

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

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

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

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 1.0
cmyn4* 0.0 0.0 0.0 0.0

standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 -

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

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LABa 47.72 0.0 0.0
LAB*TCHa 50.0 0.01 -

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

relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*tce 0.5 0.0 -
lab*nce 0.5 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 0.03 0.0 0.0
LAB*LABa 0.03 0.0 0.0
LAB*TCHa 0.01 0.01 -

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

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

relative Inform. Technology (IT)
olvi3* 1.0 0.5 0.591 (1.0)
cmyn3* 0.0 0.5 0.409 (0.0)
olvi4* 1.0 0.5 0.591 1.0
cmyn4* 0.0 0.5 0.409 0.0

standard and adapted CIELAB
LAB*LAB 75.21 40.74 20.91
LAB*LABa 75.21 40.74 20.91
LAB*TCHa 75.0 45.8 27.17

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*lrj 0.788 0.5 0.0
lab*tce 0.75 0.5 1.0
lab*nce 0.0 0.5 0.99r

relative Inform. Technology (IT)
olvi3* 0.5 0.0 0.091 (1.0)
cmyn3* 0.5 1.0 0.909 (0.0)
olvi4* 1.0 0.5 0.591 0.5
cmyn4* 0.0 0.5 0.409 0.5
standard and adapted CIELAB
LAB*LAB 27.52 40.74 20.92
LAB*LABa 27.52 40.74 20.92
LAB*TCHa 25.01 45.8 27.18

relative CIELAB lab*
lab*lab 0.288 0.445 0.228
lab*tch 0.25 0.5 0.075
lab*nch 0.5 0.5 0.075

relative Natural Colour (NC)
lab*lrj 0.288 0.5 0.0
lab*tce 0.25 0.5 0.0
lab*nce 0.5 0.5 0.00j

relative Inform. Technology (IT)
olvi3* 1.0 0.0 0.181 (1.0)
cmyn3* 0.0 1.0 0.819 (0.0)
olvi4* 1.0 0.0 0.182 1.0
cmyn4* 0.0 1.0 0.818 0.0
standard and adapted CIELAB
LAB*LAB 55.02 81.49 41.83
LAB*LABa 55.02 81.49 41.83
LAB*TCHa 50.0 91.6 27.17

relative CIELAB lab*
lab*lab 0.577 0.889 0.457
lab*tch 0.5 1.0 0.075
lab*nch 0.0 1.0 0.075

relative Natural Colour (NC)
lab*lrj 0.577 1.0 0.0
lab*tce 0.5 1.0 0.0
lab*nce 0.0 1.0 0.00j

QE000-7, 3 step scales for constant CIELAB hue 26/360 = 0.074 (left)

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

BAM-test chart QE00; Colorimetric systems ORS18 & TLS00

D50: 3 step colour scales and coordinate data for 10 hues

input: $cmv0^* setcmykcolor$

output: $cmv0^* / 000n^* setcmykcolor$

Input: Colorimetric Offset Reflective System ORS18

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

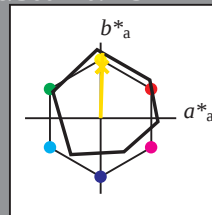
lab^*tch and lab^*nch

D50: hue J

LCH*Ma: 86 86 88

olv*Ma: 1.0 0.9 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 94$

%Regularity

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

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

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

Output: Colorimetric Television Luminous System TLS00

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

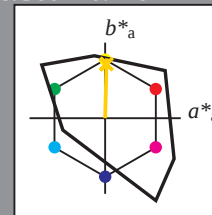
lab^*tch and lab^*nch

D50: hue J

LCH*Ma: 87 79 89

olv*Ma: 1.0 0.83 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 156$

%Regularity

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

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

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

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 1.0
cmyn4* 0.0 0.0 0.0 0.0

standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 -

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

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LABa 47.72 0.0 0.0
LAB*TCHa 50.0 0.01 -

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

relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*tce 0.5 0.0 -
lab*nce 0.5 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 0.03 0.0 0.0
LAB*LABa 0.03 0.0 0.0
LAB*TCHa 0.01 0.01 -

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

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

relative Inform. Technology (IT)
olvi3* 1.0 0.913 0.5 (1.0)
cmyn3* 0.0 0.087 0.5 (0.0)
olvi4* 1.0 0.914 0.5 1.0
cmyn4* 0.0 0.086 0.5 0.0
standard and adapted CIELAB
LAB*LAB 91.02 0.99 39.59
LAB*LABa 91.02 0.99 39.59
LAB*TCHa 75.0 39.61 88.56

relative CIELAB lab*
lab*lab 0.954 0.013 0.5
lab*tch 0.75 0.5 0.246
lab*nch 0.0 0.5 0.246

relative Natural Colour (NC)
lab*lrj 0.954 0.0 0.5
lab*tce 0.75 0.5 0.25
lab*nce 0.0 0.5 0.00g

relative Inform. Technology (IT)
olvi3* 0.5 0.413 0.0 (1.0)
cmyn3* 0.5 0.587 1.0 (0.0)
olvi4* 1.0 0.913 0.5 0.5
cmyn4* 0.0 0.087 0.5 0.5
standard and adapted CIELAB
LAB*LAB 43.33 1.0 39.59
LAB*LABa 43.33 1.0 39.59
LAB*TCHa 25.01 39.6 88.55

relative CIELAB lab*
lab*lab 0.454 0.013 0.5
lab*tch 0.25 0.5 0.246
lab*nch 0.5 0.5 0.246

relative Natural Colour (NC)
lab*lrj 0.454 0.0 0.5
lab*tce 0.25 0.5 0.25
lab*nce 0.5 0.5 0.09g

relative Inform. Technology (IT)
olvi3* 1.0 0.827 0.0 (1.0)
cmyn3* 0.0 0.173 1.0 (0.0)
olvi4* 1.0 0.827 0.0 1.0
cmyn4* 0.0 0.173 1.0 0.0
standard and adapted CIELAB
LAB*LAB 86.64 2.0 79.18
LAB*LABa 86.64 2.0 79.18
LAB*TCHa 50.0 79.21 88.56

relative CIELAB lab*
lab*lab 0.908 0.025 0.999
lab*tch 0.5 1.0 0.246
lab*nch 0.0 1.0 0.246

relative Natural Colour (NC)
lab*lrj 0.908 0.0 1.0
lab*tce 0.5 1.0 0.25
lab*nce 0.0 1.0 0.00g

BAM-test chart QE00; Colorimetric systems ORS18 & TLS00
D50: 3 step colour scales and coordinate data for 10 hues

input: $cmY0^* setcmykcolor$
output: $cmY0^* / 000n^* setcmykcolor$

Input: Colorimetric Offset Reflective System ORS18

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

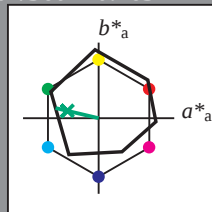
lab^*tch and lab^*nch

D50: hue G

LCH*Ma: 52 59 167

olv*Ma: 0.0 1.0 0.26

triangle lightness t^*



%Gamut

$u^*_{rel} = 94$

%Regularity

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

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

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

Output: Colorimetric Television Luminous System TLS00

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

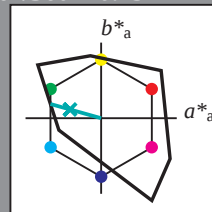
lab^*tch and lab^*nch

D50: hue G

LCH*Ma: 84 70 164

olv*Ma: 0.0 1.0 0.6

triangle lightness t^*



%Gamut

$u^*_{rel} = 156$

%Regularity

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

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

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

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 1.0
cmyn4* 0.0 0.0 0.0 0.0

standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 -

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

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LABa 47.72 0.0 0.0
LAB*TCHa 50.0 0.01 -

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

relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*tce 0.5 0.0 -
lab*nce 0.5 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 0.03 0.0 0.0
LAB*LABa 0.03 0.0 0.0
LAB*TCHa 0.01 0.01 -

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

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

relative Inform. Technology (IT)
olvi3* 0.5 1.0 0.799 (1.0)
cmyn3* 0.5 0.0 0.201 (0.0)
olvi4* 0.5 1.0 0.8 1.0
cmyn4* 0.5 0.0 0.2 0.0

standard and adapted CIELAB
LAB*LAB 89.83 -33.52 9.39
LAB*LABa 89.83 -33.52 9.39
LAB*TCHa 75.0 34.82 164.36

relative CIELAB lab*
lab*lab 0.941 -0.48 0.135
lab*tch 0.75 0.5 0.457
lab*nch 0.0 0.5 0.457

relative Natural Colour (NC)
lab*lrj 0.941 -0.499 0.0
lab*tce 0.75 0.5 0.5
lab*nce 0.0 0.5 g00b

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.299 (1.0)
cmyn3* 1.0 0.5 0.701 (0.0)
olvi4* 0.5 1.0 0.799 0.5
cmyn4* 0.5 0.0 0.201 0.5
standard and adapted CIELAB
LAB*LAB 42.13 -33.52 9.4
LAB*LABa 42.13 -33.52 9.4
LAB*TCHa 25.01 34.82 164.34

relative CIELAB lab*
lab*lab 0.442 -0.48 0.135
lab*tch 0.25 0.5 0.457
lab*nch 0.5 0.5 0.457

relative Natural Colour (NC)
lab*lrj 0.442 -0.499 0.0
lab*tce 0.25 0.5 0.5
lab*nce 0.5 0.5 g99g

relative Inform. Technology (IT)
olvi3* 0.0 1.0 0.599 (1.0)
cmyn3* 1.0 0.0 0.401 (0.0)
olvi4* 0.0 1.0 0.599 1.0
cmyn4* 1.0 0.0 0.401 0.0
standard and adapted CIELAB
LAB*LAB 84.25 -67.05 18.79
LAB*LABa 84.25 -67.05 18.79
LAB*TCHa 50.0 69.64 164.35

relative CIELAB lab*
lab*lab 0.883 -0.962 0.27
lab*tch 0.5 1.0 0.457
lab*nch 0.0 1.0 0.457

relative Natural Colour (NC)
lab*lrj 0.883 -0.999 0.0
lab*tce 0.5 1.0 0.5
lab*nce 0.0 1.0 g00b

QE000-7, 3 step scales for constant CIELAB hue 167/360 = 0.463 (left)

3 step scales for constant CIELAB hue 164/360 = 0.457 (right)

BAM-test chart QE00; Colorimetric systems ORS18 & TLS00

D50: 3 step colour scales and coordinate data for 10 hues

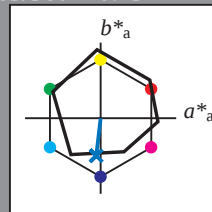
input: $cmY0^* setcmykcolor$

output: $cmY0^* / 000n^* setcmykcolor$

Input: Colorimetric Offset Reflective System ORS18

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

D50: hue B
LCH*Ma: 42 47 263
olv*Ma: 0.0 0.52 1.0
triangle lightness t^*



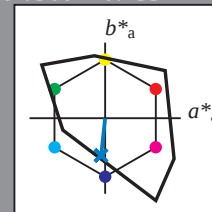
%Gamut
 $u^*_{rel} = 94$
%Regularity
 $g^*_{H,rel} = 65$
 $g^*_{C,rel} = 60$

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

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^*



%Gamut
 $u^*_{rel} = 156$
%Regularity
 $g^*_{H,rel} = 26$
 $g^*_{C,rel} = 45$

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

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	1.0	
cmyn4*	0.0	0.0	0.0	0.0	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0		
LAB*LABa	95.41	0.0	0.0		
LAB*TCHa	99.99	0.01	-		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	-		
lab*nch	0.0	0.0	-		
relative Natural Colour (NC)					
lab*lrj	1.0	0.0	0.0		
lab*tce	1.0	0.0	-		
lab*nce	0.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.796	1.0	(1.0)	
cmyn3*	0.5	0.204	0.0	(0.0)	
olvi4*	0.5	0.796	1.0	1.0	
cmyn4*	0.5	0.204	0.0	0.0	
standard and adapted CIELAB					
LAB*LAB	78.15	-2.87	-26.86		
LAB*LABa	78.15	-2.87	-26.86		
LAB*TCHa	75.0	27.02	263.88		
relative CIELAB lab*					
lab*lab	0.819	-0.052	-0.496		
lab*tch	0.75	0.5	0.733		
lab*nch	0.0	0.5	0.733		
relative Natural Colour (NC)					
lab*lrj	0.819	0.0	-0.499		
lab*tce	0.75	0.5	0.75		
lab*nce	0.0	0.5	g99b		

relative Inform. Technology (IT)					
olvi3*	0.0	0.592	1.0	(1.0)	
cmyn3*	1.0	0.408	0.0	(0.0)	
olvi4*	0.0	0.592	1.0	1.0	
cmyn4*	1.0	0.408	0.0	0.0	
standard and adapted CIELAB					
LAB*LAB	60.9	-5.74	-53.74		
LAB*LABa	60.9	-5.74	-53.74		
LAB*TCHa	50.0	54.06	263.89		
relative CIELAB lab*					
lab*lab	0.638	-0.105	-0.993		
lab*tch	0.5	1.0	0.733		
lab*nch	0.0	1.0	0.733		
relative Natural Colour (NC)					
lab*lrj	0.638	0.0	-0.999		
lab*tce	0.5	1.0	0.75		
lab*nce	0.0	1.0	g99b		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	0.5	
cmyn4*	0.0	0.0	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	47.72	0.0	0.0		
LAB*LABa	47.72	0.0	0.0		
LAB*TCHa	50.0	0.01	-		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	-		
lab*nch	0.5	0.0	-		
relative Natural Colour (NC)					
lab*lrj	0.5	0.0	0.0		
lab*tce	0.5	0.0	-		
lab*nce	0.5	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	0.0	
cmyn4*	0.0	0.0	0.0	1.0	
standard and adapted CIELAB					
LAB*LAB	0.03	0.0	0.0		
LAB*LABa	0.03	0.0	0.0		
LAB*TCHa	0.01	0.01	-		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	-		
lab*nch	1.0	0.0	-		
relative Natural Colour (NC)					
lab*lrj	0.0	0.0	0.0		
lab*tce	0.0	0.0	-		
lab*nce	1.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.0	0.296	0.5	(1.0)	
cmyn3*	1.0	0.704	0.5	(0.0)	
olvi4*	0.5	0.796	1.0	0.5	
cmyn4*	0.5	0.204	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	30.46	-2.86	-26.87		
LAB*LABa	30.46	-2.86	-26.87		
LAB*TCHa	25.01	27.03	263.9		
relative CIELAB lab*					
lab*lab	0.319	-0.052	-0.496		
lab*tch	0.25	0.5	0.733		
lab*nch	0.5	0.5	0.733		
relative Natural Colour (NC)					
lab*lrj	0.319	0.0	-0.499		
lab*tce	0.25	0.5	0.75		
lab*nce	0.5	0.5	b00r		

relative Inform. Technology (IT)					
olvi3*	0.0	0.592	1.0	(1.0)	
cmyn3*	1.0	0.408	0.0	(0.0)	
olvi4*	0.0	0.592	1.0	1.0	
cmyn4*	1.0	0.408	0.0	0.0	
standard and adapted CIELAB					
LAB*LAB	60.9	-5.74	-53.74		
LAB*LABa	60.9	-5.74	-53.74		
LAB*TCHa	50.0	54.06	263.89		
relative CIELAB lab*					
lab*lab	0.638	-0.105	-0.993		
lab*tch	0.5	1.0	0.733		
lab*nch	0.0	1.0	0.733		
relative Natural Colour (NC)					
lab*lrj	0.638	0.0	-0.999		
lab*tce	0.5	1.0	0.75		
lab*nce	0.0	1.0	g99b		

QE000-7, 3 step scales for constant CIELAB hue 263/360 = 0.731 (left)

3 step scales for constant CIELAB hue 264/360 = 0.733 (right)

BAM-test chart QE00; Colorimetric systems ORS18 & TLS00
D50: 3 step colour scales and coordinate data for 10 hues

input: $cmy0^* \text{ setcmykcolor}$
output: $cmy0^* / 000n^* \text{ setcmykcolor}$