

Input: Colorimetric Standard Reflective System SRS18

for hue $h^* = lab^*h = 30/360 = 0.083$

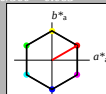
lab^*ch and lab^*nch

D65: hue O

LCH*Ma: 57 77 30

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 100$

% Regularity

$g^*_{rel} = 100$

$g^*_{C,rel} = 100$

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*LABo 95.41 0.0 0.0
LAB*TCHo 99.99 0.01 -

relative CIELAB lab*
lab*lab 1.0 0.5 0.0 (1.0)
lab*ch 1.0 0.0 -
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*ncc 1.0 0.0 0.0
lab*nccE 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.72 0.0 0.0
LAB*LABo 56.72 0.0 0.0
LAB*TCHo 30.0 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0 (1.0)
lab*ch 0.5 0.0 0.0
lab*nch 0.5 0.0 -
relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*ncc 0.5 0.0 0.0
lab*nccE 0.5 0.0 -

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABo 18.03 0.0 0.0
LAB*TCHo 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 1.0 0.0 -
lab*nch 1.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*ncc 0.0 0.0 0.0
lab*nccE 1.0 0.0 -

$n^* = 1.0$

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 76.06 33.51 19.35
LAB*LABo 76.06 33.51 19.35
LAB*TCHo 75.0 38.69 30.0

relative CIELAB lab*
lab*lab 0.75 0.433 0.25
lab*ch 0.75 0.5 0.083
lab*nch 0.0 0.5 0.083
relative Natural Colour (NC)
lab*lrj 0.75 0.497 0.053
lab*ncc 0.75 0.5 0.017
lab*nccE 0.0 0.5 r06j

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 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 33.51 19.35
LAB*LABo 37.36 33.51 19.35
LAB*TCHo 25.01 38.69 30.0

relative CIELAB lab*
lab*lab 0.25 0.433 0.25
lab*ch 0.25 0.5 0.083
lab*nch 0.0 0.5 0.083
relative Natural Colour (NC)
lab*lrj 0.25 0.497 0.053
lab*ncc 0.25 0.5 0.017
lab*nccE 0.5 0.5 r06j

$n^* = 0.00$

blackness n^*

chromaticness c^*

0.25 0.50 $n^* = 0.50$ 0.75 1.00

SRS18; adapted (a) CIELAB data	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
QMa 56.71	67.03	38.7	77.4	30	
YMa 56.71	0.0	77.4	77.4	90	
LMa 56.71	-67.02	38.7	77.4	150	
CMa 56.71	-67.02	-38.69	77.4	210	
VMa 56.71	0.0	-77.39	77.4	270	
MMa 56.71	67.03	-38.69	77.4	330	
NMa 18.01	0.0	0.0	0.0	0	
WMa 95.41	0.0	0.0	0.0	0	
RCie 39.92	58.74	27.99	65.07	25	
JCie 81.26	-2.88	71.56	71.62	92	
GCie 82.23	-42.41	13.6	44.55	162	
BCie 30.57	1.41	-46.46	46.49	272	

Output: Colorimetric Offset Reflective System ORS18

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

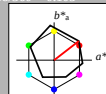
lab^*ch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

% Regularity

$g^*_{rel} = 57$

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

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 -0.98 4.75
LAB*LABo 95.41 0.0 0.0
LAB*TCHo 99.99 0.01 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0 (1.0)
lab*ch 1.0 0.0 -
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*ncc 1.0 0.0 0.0
lab*nccE 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 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -0.24 2.14
LAB*LABo 56.71 0.0 0.0
LAB*TCHo 50.0 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0 (1.0)
lab*ch 0.5 0.0 0.0
lab*nch 0.5 0.0 -
relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*ncc 0.5 0.0 0.0
lab*nccE 0.5 0.0 -

relative Inform. Technology (IT)
olvi3* 0.5 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.5 -0.47
LAB*LABo 18.02 0.0 0.0
LAB*TCHo 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 1.0 0.0 -
lab*nch 1.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*ncc 0.0 0.0 0.0
lab*nccE 1.0 0.0 -

$n^* = 1.0$

ORS18; adapted (a) CIELAB data

$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
QMa 47.94	65.39	50.52	82.63	38
YMa 90.37	-10.26	91.75	92.32	96
LMa 50.9	-62.83	34.96	71.91	151
CMa 58.62	-30.34	-45.01	54.3	236
VMa 25.72	31.1	-44.4	54.22	305
MMa 48.13	75.28	-8.36	75.74	354
NMa 18.01	0.0	0.0	0.0	0
WMa 95.41	0.0	0.0	0.0	0
RCie 39.92	58.66	26.98	64.57	25
JCie 81.26	-2.16	67.76	67.79	92
GCie 82.23	-42.25	11.76	43.87	164
BCie 30.57	1.15	-46.84	46.86	271

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 71.67 32.15 28.41
LAB*LABo 71.67 32.15 28.41
LAB*TCHo 75.0 41.31 37.69

relative CIELAB lab*
lab*lab 0.693 0.396 0.306
lab*ch 0.75 0.5 0.105
lab*nch 0.0 0.5 0.105
relative Natural Colour (NC)
lab*lrj 0.693 0.477 0.15
lab*ncc 0.75 0.5 0.048
lab*nccE 0.0 0.5 r19j

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 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 32.98 32.9 25.8
LAB*LABo 32.98 32.69 25.25
LAB*TCHo 25.01 41.31 37.69

relative CIELAB lab*
lab*lab 0.193 0.396 0.306
lab*ch 0.25 0.5 0.105
lab*nch 0.0 0.5 0.105
relative Natural Colour (NC)
lab*lrj 0.193 0.477 0.15
lab*ncc 0.25 0.5 0.048
lab*nccE 0.5 0.5 r19j

$n^* = 0.00$

blackness n^*

chromaticness c^*

0.25 0.50 $n^* = 0.50$ 0.75 1.00

ORS18; adapted (a) CIELAB data	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
QMa 47.94	65.39	50.52	82.63	38	
YMa 90.37	-10.26	91.75	92.32	96	
LMa 50.9	-62.83	34.96	71.91	151	
CMa 58.62	-30.34	-45.01	54.3	236	
VMa 25.72	31.1	-44.4	54.22	305	
MMa 48.13	75.28	-8.36	75.74	354	
NMa 18.01	0.0	0.0	0.0	0	
WMa 95.41	0.0	0.0	0.0	0	
RCie 39.92	58.66	26.98	64.57	25	
JCie 81.26	-2.16	67.76	67.79	92	
GCie 82.23	-42.25	11.76	43.87	164	
BCie 30.57	1.15	-46.84	46.86	271	

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 71.67 32.15 28.41
LAB*LABo 71.67 32.15 28.41
LAB*TCHo 75.0 41.31 37.69

relative CIELAB lab*
lab*lab 0.693 0.396 0.306
lab*ch 0.75 0.5 0.105
lab*nch 0.0 0.5 0.105
relative Natural Colour (NC)
lab*lrj 0.693 0.477 0.15
lab*ncc 0.75 0.5 0.048
lab*nccE 0.0 0.5 r19j

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 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 32.98 32.9 25.8
LAB*LABo 32.98 32.69 25.25
LAB*TCHo 25.01 41.31 37.69

relative CIELAB lab*
lab*lab 0.193 0.396 0.306
lab*ch 0.25 0.5 0.105
lab*nch 0.0 0.5 0.105
relative Natural Colour (NC)
lab*lrj 0.193 0.477 0.15
lab*ncc 0.25 0.5 0.048
lab*nccE 0.5 0.5 r19j

$n^* = 0.00$

blackness n^*

chromaticness c^*

0.25 0.50 $n^* = 0.50$ 0.75 1.00

BAM-test chart NE17; Colorimetric systems SRS18 & ORS18

D65: 2 coordinate data of 3 step colour scales for 10 hues

input: olv* setrgbcolor

output: olv* setrgbcolor / w* setgray