

Input: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 35/360 = 0.097$

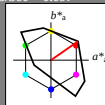
lab^*ch and lab^*nch

D65: hue O

LCH*Ma: 53 87 35

olw*Ma: 1.0 0.0 0.0

triangle lightness l^*



% Gamut

$u^*_{rel} = 118$

% Regularity

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

relative Inform. Technology (IT)
 $olw^*3^* 1.0 1.0 1.0 (1.0)$
 $cmyn^*3^* 0.0 0.0 0.0 (0.0)$
 $olw^*4^* 1.0 1.0 1.0 (1.0)$
 $cmyn^*4^* 0.0 0.0 0.0 (0.0)$

standard and adapted CIELAB
 $LAB^*LAB 95.41 0.0 0.0$
 $LAB^*LAB 95.41 0.0 0.0$
 $LAB^*TCH 99.91 0.01 -$

relative CIELAB lab*
 $lab^*lab 1.0 0.5 0.5 (1.0)$
 $lab^*nch 1.0 0.0 -$
 $lab^*nch 1.0 0.0 -$

relative Natural Colour (NC)
 $lab^*lrj 1.0 0.0 0.0$
 $lab^*lce 1.0 0.0 0.0$
 $lab^*nce 0.0 0.0 -$

relative Inform. Technology (IT)
 $olw^*3^* 0.5 0.5 0.5 (1.0)$
 $cmyn^*3^* 0.5 0.5 0.5 (0.0)$
 $olw^*4^* 1.0 1.0 1.0 (0.5)$
 $cmyn^*4^* 0.0 0.0 0.0 (0.5)$

standard and adapted CIELAB
 $LAB^*LAB 56.72 0.0 0.0$
 $LAB^*LAB 56.72 0.0 0.0$
 $LAB^*TCH 50.0 0.01 -$

relative CIELAB lab*
 $lab^*lab 0.5 0.0 0.0$
 $lab^*nch 0.5 0.0 -$
 $lab^*nch 0.5 0.0 -$

relative Natural Colour (NC)
 $lab^*lrj 0.5 0.0 0.0$
 $lab^*lce 0.5 0.0 0.0$
 $lab^*nce 0.5 0.0 -$

relative Inform. Technology (IT)
 $olw^*3^* 1.0 1.0 1.0 (0.0)$
 $cmyn^*3^* 0.0 0.0 0.0 (0.0)$
 $olw^*4^* 1.0 1.0 1.0 (0.0)$
 $cmyn^*4^* 0.0 0.0 0.0 (0.0)$

standard and adapted CIELAB
 $LAB^*LAB 18.03 0.0 0.0$
 $LAB^*LAB 18.03 0.0 0.0$
 $LAB^*TCH 0.01 0.01 -$

relative CIELAB lab*
 $lab^*lab 0.0 0.0 0.0$
 $lab^*nch 1.0 0.0 -$
 $lab^*nch 1.0 0.0 -$

relative Natural Colour (NC)
 $lab^*lrj 0.0 0.0 0.0$
 $lab^*lce 0.0 0.0 0.0$
 $lab^*nce 1.0 0.0 -$

$n^* = 1.0$

relative Inform. Technology (IT)
 $olw^*3^* 1.0 0.5 0.5 (1.0)$
 $cmyn^*3^* 0.0 0.5 0.5 (0.0)$
 $olw^*4^* 1.0 0.5 0.5 (0.0)$
 $cmyn^*4^* 0.0 0.5 0.5 (0.0)$

standard and adapted CIELAB
 $LAB^*LAB 74.08 35.81 24.94$
 $LAB^*LAB 74.08 35.81 24.94$
 $LAB^*TCH 75.0 43.63 34.85$

relative CIELAB lab*
 $lab^*lab 0.724 0.41 0.286$
 $lab^*nch 0.75 0.5 0.097$
 $lab^*nch 0.0 0.5 0.097$

relative Natural Colour (NC)
 $lab^*lrj 0.724 0.488 0.109$
 $lab^*lce 0.75 0.5 0.035$
 $lab^*nce 0.0 0.5 0.14$

relative Inform. Technology (IT)
 $olw^*3^* 0.5 0.0 0.0 (1.0)$
 $cmyn^*3^* 0.5 0.0 0.0 (0.0)$
 $olw^*4^* 1.0 0.5 0.5 (0.5)$
 $cmyn^*4^* 0.0 0.5 0.5 (0.5)$

standard and adapted CIELAB
 $LAB^*LAB 35.39 35.81 24.94$
 $LAB^*LAB 35.39 35.81 24.94$
 $LAB^*TCH 25.01 43.63 34.85$

relative CIELAB lab*
 $lab^*lab 0.225 0.41 0.286$
 $lab^*nch 0.225 0.5 0.097$
 $lab^*nch 0.0 0.5 0.097$

relative Natural Colour (NC)
 $lab^*lrj 0.225 0.488 0.109$
 $lab^*lce 0.25 0.5 0.035$
 $lab^*nce 0.0 0.5 0.14$

$n^* = 0.50$

chromaticness c^*

blackness n^*

$n^* = 0.00$

Output: Colorimetric Offset Reflective System ORS18

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

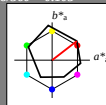
lab^*ch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

olw*Ma: 1.0 0.0 0.0

triangle lightness l^*



% Gamut

$u^*_{rel} = 93$

% Regularity

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

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

relative Inform. Technology (IT)
 $olw^*3^* 1.0 1.0 1.0 (1.0)$
 $cmyn^*3^* 0.0 0.0 0.0 (0.0)$
 $olw^*4^* 1.0 1.0 1.0 (1.0)$
 $cmyn^*4^* 0.0 0.0 0.0 (0.0)$

standard and adapted CIELAB
 $LAB^*LAB 95.41 -0.98 4.75$
 $LAB^*LAB 95.41 0.0 0.0$
 $LAB^*TCH 99.91 0.01 -$

relative CIELAB lab*
 $lab^*lab 1.0 0.0 0.0$
 $lab^*nch 1.0 0.0 -$
 $lab^*nch 1.0 0.0 -$

relative Natural Colour (NC)
 $lab^*lrj 1.0 0.0 0.0$
 $lab^*lce 1.0 0.0 0.0$
 $lab^*nce 0.0 0.0 -$

relative Inform. Technology (IT)
 $olw^*3^* 0.5 0.5 0.5 (1.0)$
 $cmyn^*3^* 0.0 0.5 0.5 (0.0)$
 $olw^*4^* 1.0 1.0 1.0 (0.5)$
 $cmyn^*4^* 0.0 0.5 0.5 (0.5)$

standard and adapted CIELAB
 $LAB^*LAB 56.71 -0.24 2.14$
 $LAB^*LAB 56.71 0.0 0.0$
 $LAB^*TCH 50.0 0.01 -$

relative CIELAB lab*
 $lab^*lab 0.5 0.0 0.0$
 $lab^*nch 0.5 0.0 -$
 $lab^*nch 0.5 0.0 -$

relative Natural Colour (NC)
 $lab^*lrj 0.5 0.0 0.0$
 $lab^*lce 0.5 0.0 0.0$
 $lab^*nce 0.5 0.0 -$

relative Inform. Technology (IT)
 $olw^*3^* 0.0 0.0 0.0 (1.0)$
 $cmyn^*3^* 1.0 1.0 1.0 (0.0)$
 $olw^*4^* 0.0 0.0 0.0 (0.0)$
 $cmyn^*4^* 0.0 0.0 0.0 (0.0)$

standard and adapted CIELAB
 $LAB^*LAB 18.02 0.5 -0.47$
 $LAB^*LAB 18.02 0.0 0.0$
 $LAB^*TCH 0.01 0.01 -$

relative CIELAB lab*
 $lab^*lab 0.0 0.0 0.0$
 $lab^*nch 1.0 0.0 -$
 $lab^*nch 1.0 0.0 -$

relative Natural Colour (NC)
 $lab^*lrj 0.0 0.0 0.0$
 $lab^*lce 0.0 0.0 0.0$
 $lab^*nce 1.0 0.0 -$

$n^* = 1.0$

ORS18; adapted (a) CIELAB data

$L^* = L^*_a a^*_a b^*_a$ $C^*_{ab,a}$ $h^*_{ab,a}$

OMa	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	-44.54	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
RCE	39.92	58.66	26.98	64.57	25
JCE	81.26	-2.16	67.76	67.79	92
GCE	82.23	-42.25	11.76	43.87	164
BCCE	30.57	1.15	-46.84	46.86	271

relative Inform. Technology (IT)
 $olw^*3^* 1.0 0.5 0.5 (1.0)$
 $cmyn^*3^* 0.0 0.5 0.5 (0.0)$
 $olw^*4^* 1.0 0.5 0.5 (0.0)$
 $cmyn^*4^* 0.0 0.5 0.5 (0.0)$

standard and adapted CIELAB
 $LAB^*LAB 71.67 32.15 28.41$
 $LAB^*LAB 71.67 32.15 28.41$
 $LAB^*TCH 75.0 41.31 37.69$

relative CIELAB lab*
 $lab^*lab 0.693 0.396 0.306$
 $lab^*nch 0.75 0.5 0.105$
 $lab^*nch 0.0 0.5 0.105$

relative Natural Colour (NC)
 $lab^*lrj 0.693 0.477 0.15$
 $lab^*lce 0.75 0.5 0.048$
 $lab^*nce 0.0 0.5 0.19$

relative Inform. Technology (IT)
 $olw^*3^* 0.5 0.0 0.0 (1.0)$
 $cmyn^*3^* 0.5 0.0 0.0 (0.0)$
 $olw^*4^* 1.0 0.5 0.5 (0.5)$
 $cmyn^*4^* 0.0 0.5 0.5 (0.5)$

standard and adapted CIELAB
 $LAB^*LAB 32.98 32.9 25.8$
 $LAB^*LAB 32.98 32.9 25.8$
 $LAB^*TCH 25.01 41.31 37.69$

relative CIELAB lab*
 $lab^*lab 0.193 0.396 0.306$
 $lab^*nch 0.25 0.5 0.105$
 $lab^*nch 0.0 0.5 0.105$

relative Natural Colour (NC)
 $lab^*lrj 0.193 0.477 0.15$
 $lab^*lce 0.25 0.5 0.048$
 $lab^*nce 0.0 0.5 0.19$

$n^* = 0.50$

chromaticness c^*

blackness n^*

$n^* = 0.00$