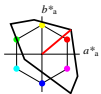


Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 40/360 = 0.111$
 lab^*tch and lab^*nch



D65: hue O
 LCH*Ma: 51 100 40
 olv*Ma: 1.0 0.0 0.0

triangle lightness l^*

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*TCHe 99.99 0.01 -

relative CIELAB lab*
 $lab^*lab = 1.0$ 0.5 0.0 (0.0)
 $lab^*tch = 1.0$ 0.0 0.0 (-)
 $lab^*nch = 0.0$ 0.0 0.0 (-)
 relative Natural Colour (NC)
 $lab^*lry = 1.0$ 0.0 0.0 (0.0)
 $lab^*tce = 1.0$ 0.0 0.0 (-)
 $lab^*nce = 0.0$ 0.0 0.0 (-)

relative Inform. Technology (IT)
 $olvi3^* = 0.5$ 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*TCHe 50.0 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.5$ 0.0 0.0 (0.0)
 $lab^*tch = 0.5$ 0.0 0.0 (-)
 $lab^*nch = 0.5$ 0.0 0.0 (-)
 relative Natural Colour (NC)
 $lab^*lry = 0.5$ 0.0 0.0 (0.0)
 $lab^*tce = 0.5$ 0.0 0.0 (-)
 $lab^*nce = 0.5$ 0.0 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*TCHe 0.01 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.0$ 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)
 $lab^*lry = 0.0$ 0.0 0.0 (0.0)
 $lab^*tce = 0.0$ 0.0 0.0 (-)
 $lab^*nce = 1.0$ 0.0 0.0 (-)

$n^* = 1.0$

TLS00; adapted (a) CIELAB data

	L^*	a^*	b^*	C^*_{ab}	h^*_{ab}
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	300
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.0	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.28	71.56	71.62	92
G _{CIE}	52.83	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

% Gamut
 $u^*_{rel} = 158$
 % Regularity
 $g^*_{rel} = 20$
 $g^*_{Crel} = 37$

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 72.95 38.45 32.27
 LAB*LABa 72.95 38.45 32.27
 LAB*TCHe 75.0 50.2 40.0

relative CIELAB lab*
 $lab^*lab = 0.765$ 0.383 0.321
 $lab^*tch = 0.75$ 0.5 0.111
 $lab^*nch = 0.0$ 0.5 0.111
 relative Natural Colour (NC)
 $lab^*lry = 0.765$ 0.471 0.167
 $lab^*tce = 0.75$ 0.5 0.1054
 $lab^*nce = 0.0$ 0.5 0.21

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 25.26 38.45 32.27
 LAB*LABa 25.26 38.45 32.27
 LAB*TCHe 25.01 50.2 40.0

relative CIELAB lab*
 $lab^*lab = 0.265$ 0.383 0.321
 $lab^*tch = 0.25$ 0.5 0.111
 $lab^*nch = 0.5$ 1.0 0.111
 relative Natural Colour (NC)
 $lab^*lry = 0.265$ 0.471 0.167
 $lab^*tce = 0.25$ 0.5 0.1054
 $lab^*nce = 0.5$ 0.5 0.21

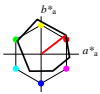
$n^* = 0.00$

blackness n^*

chromaticness c^*

Output: Colorimetric Offset Reflective System ORS18

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



D65: hue O
 LCH*Ma: 48 83 38
 olv*Ma: 1.0 0.0 0.0

triangle lightness l^*

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*LABa 95.41 0.0 0.0
 LAB*TCHe 99.99 0.01 -

relative CIELAB lab*
 $lab^*lab = 1.0$ 0.0 0.0 (0.0)
 $lab^*tch = 1.0$ 0.0 0.0 (-)
 $lab^*nch = 0.0$ 0.0 0.0 (-)
 relative Natural Colour (NC)
 $lab^*lry = 1.0$ 0.0 0.0 (0.0)
 $lab^*tce = 0.0$ 0.0 0.0 (-)
 $lab^*nce = 0.0$ 0.0 0.0 (-)

relative Inform. Technology (IT)
 $olvi3^* = 0.5$ 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 56.71 -0.24 2.14
 LAB*LABa 56.71 0.0 0.0
 LAB*TCHe 50.0 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.5$ 0.0 0.0 (0.0)
 $lab^*tch = 0.5$ 0.0 0.0 (-)
 $lab^*nch = 0.5$ 0.0 0.0 (-)
 relative Natural Colour (NC)
 $lab^*lry = 0.5$ 0.0 0.0 (0.0)
 $lab^*tce = 0.5$ 0.0 0.0 (-)
 $lab^*nce = 0.5$ 0.0 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 18.02 0.5 -0.47
 LAB*LABa 18.02 0.0 0.0
 LAB*TCHe 0.01 0.01 0.0

relative CIELAB lab*
 $lab^*lab = 0.0$ 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)
 $lab^*lry = 0.0$ 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^*	a^*	b^*	C^*_{ab}	h^*_{ab}
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	0.0	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.83	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

% Gamut
 $u^*_{rel} = 93$
 % Regularity
 $g^*_{rel} = 57$
 $g^*_{Crel} = 59$

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*LABa 71.67 32.15 28.41
 LAB*TCHe 75.0 41.31 37.69

relative CIELAB lab*
 $lab^*lab = 0.693$ 0.396 0.306
 $lab^*tch = 0.75$ 0.5 0.105
 $lab^*nch = 0.0$ 0.5 0.105
 relative Natural Colour (NC)
 $lab^*lry = 0.693$ 0.477 0.15
 $lab^*tce = 0.75$ 0.5 0.1048
 $lab^*nce = 0.0$ 0.5 0.191

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 32.98 32.9 25.8
 LAB*LABa 32.98 32.69 25.25
 LAB*TCHe 25.01 41.31 37.69

relative CIELAB lab*
 $lab^*lab = 0.193$ 0.396 0.306
 $lab^*tch = 0.25$ 0.5 0.105
 $lab^*nch = 0.5$ 1.0 0.105
 relative Natural Colour (NC)
 $lab^*lry = 0.193$ 0.477 0.15
 $lab^*tce = 0.25$ 0.5 0.1048
 $lab^*nce = 0.5$ 0.5 0.191

$n^* = 0.00$

blackness n^*

chromaticness c^*