

```
output: cmy0* / 000n* setcmykcolor
```

VERSION 2.1, 10-0,0, CIELAB

```
output: cmv0* / 000n* setcmvcolor
```

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 142/360 = 0.395$

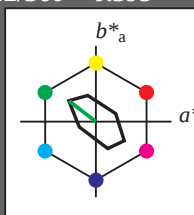
$lab \cdot tch$ and $lab \cdot nch$

D65: hue L

LCH*Ma: 89 45 142

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



% Gamut

TLS70; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	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	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

% Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

relative Inform. Technology (IT)	
olv3*	0.0 1.0 1.0 (1.0)
olv4*	0.0 0.0 1.0 (1.0)
olv5*	0.0 1.0 1.0 (1.0)
olv6*	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*Lab	95.41 0.0 0.0

relative Inform. Technology (IT)	
olv3*	0.75 1.0 0.75 (1.0)
olv4*	0.25 0.0 0.25 (0.0)
olv5*	0.75 1.0 0.75 (1.0)
olv6*	0.25 0.0 0.25 (0.0)
standard and adapted CIELAB	
LAB*Lab	93.89 -8.94 6.91
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LAB*Lab	93.89 -8.94 6.91

relative Inform. Technology (IT)	
olv3*	0.5 1.0 0.5 (1.0)
olv4*	0.5 0.0 0.5 (0.0)
olv5*	0.5 1.0 0.5 (1.0)
olv6*	0.5 0.0 0.5 (0.0)
standard and adapted CIELAB	
LAB*Lab	92.36 -17.89 13.82
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relative Inform. Technology (IT)	
olv3*	0.25 0.0 0.25 (0.0)
olv4*	0.25 0.0 0.25 (0.0)
olv5*	0.25 0.0 0.25 (0.0)
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olv3*	0.75 0.75 0.75 (1.0)
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olv6*	0.25 0.25 0.25 (0.0)
standard and adapted CIELAB	
LAB*Lab	88.98 0.0 0.0
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relative Inform. Technology (IT)	
olv3*	0.5 0.5 0.5 (1.0)
olv4*	0.5 0.5 0.5 (1.0)
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output: $cmv0^* / 000n^*$ setcmvcolor

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 294/360 = 0.816$

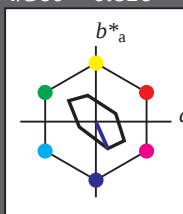
$lab \cdot tch$ and $lab \cdot nch$

D65: hue V

LCH*Ma: 72 39 294

olv*Ma: 0.0 0.0 1.0

triangle lightness t^*



TLS70; adapted (a) CIELAB data

	$L^* = L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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olv7*	0.75	0.75	0.75	1.0	1.0
olv8*	0.75	0.75	0.75	1.0	1.0
olv9*	0.75	0.75	0.75	1.0	1.0
olv10*	0.75	0.75	0.75	1.0	1.0
olv11*	0.75	0.75	0.75	1.0	1.0
olv12*	0.75	0.75	0.75	1.0	1.0
olv13*	0.75	0.75	0.75	1.0	1.0
olv14*	0.75	0.75	0.75	1.0	1.0
olv15*	0.75	0.75	0.75	1.0	1.0
olv16*	0.75	0.75	0.75	1.0	1.0
olv17*	0.75	0.75	0.75	1.0	1.0
olv18*	0.75	0.75	0.75	1.0	1.0
olv19*	0.75	0.75	0.75	1.0	1.0
olv20*	0.75	0.75	0.75	1.0	1.0
olv21*	0.75	0.75	0.75	1.0	1.0
olv22*	0.75	0.75	0.75	1.0	1.0
olv23*	0.75	0.75	0.75	1.0	1.0
olv24*	0.75	0.75	0.75	1.0	1.0
olv25*	0.75	0.75	0.75	1.0	1.0
olv26*	0.75	0.75	0.75	1.0	1.0
olv27*	0.75	0.75	0.75	1.0	1.0
olv28*	0.75	0.75	0.75	1.0	1.0
olv29*	0.75	0.75	0.75	1.0	1.0
olv30*	0.75	0.75	0.75	1.0	1.0
olv31*	0.75	0.75	0.75	1.0	1.0
olv32*	0.75	0.75	0.75	1.0	1.0
olv33*	0.75	0.75	0.75	1.0	1.0
olv34*	0.75	0.75	0.75	1.0	1.0
olv35*	0.75	0.75	0.75	1.0	1.0
olv36*	0.75	0.75	0.75	1.0	1.0
olv37*	0.75	0.75	0.75	1.0	1.0
olv38*	0.75	0.75	0.75	1.0	1.0
olv39*	0.75	0.75	0.75	1.0	1.0
olv40*	0.75	0.75	0.75	1.0	1.0
olv41*	0.75	0.75	0.75	1.0	1.0
olv42*	0.75	0.75	0.75	1.0	1.0
olv43*	0.75	0.75	0.75	1.0	1.0
olv44*	0.75	0.75	0.75	1.0	1.0
olv45*	0.75	0.75	0.75	1.0	1.0
olv46*	0.75	0.75	0.75	1.0	1.0
olv47*	0.75	0.75	0.75	1.0	1.0
olv48*	0.75	0.75	0.75	1.0	1.0
olv49*	0.75	0.75	0.75	1.0	1.0
olv50*	0.75	0.75	0.75	1.0	1.0
olv51*	0.75	0.75	0.75	1.0	1.0
olv52*	0.75	0.75	0.75	1.0	1.0
olv53*	0.75	0.75	0.75	1.0	1.0
olv54*	0.75	0.75	0.75	1.0	1.0
olv55*	0.75	0.75	0.75	1.0	1.0
olv56*	0.75	0.75	0.75	1.0	1.0
olv57*	0.75	0.75	0.75	1.0	1.0
olv58*	0.75	0.75	0.75	1.0	1.0
olv59*	0.75	0.75	0.75	1.0	1.0
olv60*	0.75	0.75	0.75	1.0	1.0
olv61*	0.75	0.75	0.75	1.0	1.0
olv62*	0.75	0.75	0.75	1.0	1.0
olv63*	0.75	0.75	0.75	1.0	1.0
olv64*	0.75	0.75	0.75	1.0	1.0
olv65*	0.75	0.75	0.75	1.0	1.0
olv66*	0.75	0.75	0.75	1.0	1.0
olv67*	0.75	0.75	0.75	1.0	1.0
olv68*	0.75	0.75	0.75	1.0	1.0
olv69*	0.75	0.75	0.75	1.0	1.0
olv70*	0.75	0.75	0.75	1.0	1.0
olv71*	0.75	0.75	0.75	1.0	1.0
olv72*	0.75	0.75	0.75	1.0	1.0
olv73*	0.75	0.75	0.75	1.0	1.0
olv74*	0.75	0.75	0.75	1.0	1.0
olv75*	0.75	0.75	0.75	1.0	1.0
olv76*	0.75	0.75	0.75	1.0	1.0
olv77*	0.75	0.75	0.75	1.0	1.0
olv78*	0.75	0.75	0.75	1.0	1.0
olv79*	0.75	0.75	0.75	1.0	1.0
olv80*	0.75	0.75	0.75	1.0	1.0
olv81*	0.75	0.75	0.75	1.0	1.0
olv82*	0.75	0.75	0.75	1.0	1.0
olv83*	0.75	0.75	0.75	1.0	1.0
olv84*	0.75	0.75	0.75	1.0	1.0
olv85*	0.75	0.75	0.75	1.0	1.0
olv86*	0.75	0.75	0.75	1.0	1.0
olv87*	0.75	0.75	0.75	1.0	1.0
olv88*	0.75	0.75	0.75	1.0	1.0
olv89*	0.75	0.75	0.75	1.0	1.0
olv90*	0.75	0.75	0.75	1.0	1.0
olv91*	0.75	0.75	0.75	1.0	1.0
olv92*	0.75	0.75	0.75	1.0	1.0
olv93*	0.75	0.75	0.75	1.0	1.0
olv94*	0.75	0.75	0.75	1.0	1.0
olv95*	0.75	0.75	0.75	1.0	1.0
olv96*	0.75	0.75	0.75	1.0	1.0
olv97*	0.75	0.75	0.75	1.0	1.0
olv98*	0.75	0.75	0.75	1.0	1.0
olv99*	0.75	0.75	0.75	1.0	1.0
olv100*	0.75	0.75	0.75	1.0	1.0

relative Inform. Technology (IT)

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

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 326/360 = 0.906$

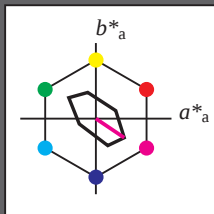
$lab \cdot tch$ and $lab \cdot nch$

D65: hue M

LCH*Ma: 79 45 326

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 16$

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	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*LAB	95.41	0.0	0.0
LAB*LAB	95.41	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
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
lab*lab	1.0	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0

relative CIELAB lab*

lab*lab	0.836	0.17	-0.182
lab*lab	0.836	0.17	-0.182
lab*lab	0.836	0.17	-0.182
lab*lab	0.836	0.17	-0.182

relative Natural Colour (NC)

lab*lab	0.836	0.17	-0.182
lab*lab	0.836	0.17	-0.182
lab*lab	0.836	0.17	-0.182
lab*lab	0.836	0.17	-0.182

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	82.56	0.0	0.0
LAB*LAB	82.56	0.0	0.0
LAB*LAB	82.56	0.0	0.0
LAB*LAB	82.56	0.0	0.0

relative CIELAB lab*

lab*lab	0.596	0.17	-0.182
lab*lab	0.596	0.17	-0.182
lab*lab	0.596	0.17	-0.182
lab*lab	0.596	0.17	-0.182

relative Natural Colour (NC)

lab*lab	0.596	0.17	-0.182
lab*lab	0.596	0.17	-0.182
lab*lab	0.596	0.17	-0.182
lab*lab	0.596	0.17	-0.182

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
olvi3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	76.13	0.0	0.0
LAB*LAB	76.13	0.0	0.0
LAB*LAB	76.13	0.0	0.0
LAB*LAB	76.13	0.0	0.0

relative CIELAB lab*

lab*lab	0.336	0.207	-0.138
lab*lab	0.336	0.207	-0.138
lab*lab	0.336	0.207	-0.138
lab*lab	0.336	0.207	-0.138

relative Natural Colour (NC)

lab*lab	0.336	0.207	-0.138
lab*lab	0.336	0.207	-0.138
lab*lab	0.336	0.207	-0.138
lab*lab	0.336	0.207	-0.138

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
olvi3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	69.7	0.0	0.0
LAB*LAB	69.7	0.0	0.0
LAB*LAB	69.7	0.0	0.0
LAB*LAB	69.7	0.0	0.0

relative CIELAB lab*

lab*lab	0.086	0.207	-0.138
lab*lab	0.086	0.207	-0.138
lab*lab	0.086	0.207	-0.138
lab*lab	0.086	0.207	-0.138

relative Natural Colour (NC)

lab*lab	0.086	0.207	-0.138
lab*lab	0.086	0.207	-0.138
lab*lab	0.086	0.207	-0.138
lab*lab	0.086	0.207	-0.138

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
olvi3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	69.7	0.0	0.0
LAB*LAB	69.7	0.0	0.0
LAB*LAB	69.7	0.0	0.0
LAB*LAB	69.7	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
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
lab*lab	0.0	0.0	0.0

OE590-7, 5 step scales for constant CIELAB hue 326/360 = 0.906 (left)

BAM-test chart OE59; Colorimetric systems TLS70 & TLS70

D65: 2 coordinate data of 5 step colour scales for 10 hues

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 326/360 = 0.906$

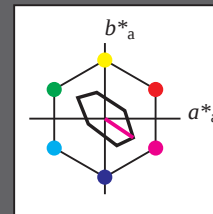
$lab \cdot tch$ and $lab \cdot nch$

D65: hue M

LCH*Ma: 79 45 326

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 16$

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	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*LAB	95.41	0.0	0.0
LAB*LAB	95.41	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
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
lab*lab	1.0	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0

relative CIELAB lab*

lab*lab	0.836	0.17	-0.182
lab*lab	0.836	0.17	-0.182
lab*lab	0.836	0.17	-0.182
lab*lab	0.836	0.17	-0.182

relative Natural Colour (NC)

lab*lab	0.836	0.17	-0.182
lab*lab	0.836	0.17	-0.182
lab*lab	0.836	0.17	-0.182
lab*lab	0.836	0.17	-0.182

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	82.56	0.0	0.0
LAB*LAB	82.56	0.0	0.0
LAB*LAB	82.56	0.0	0.0
LAB*LAB	82.56	0.0	0.0

relative CIELAB lab*

lab*lab	0.596	0.17	-0.182
lab*lab	0.596	0.17	-0.182
lab*lab	0.596	0.17	-0.182
lab*lab	0.596	0.17	-0.182

relative Natural Colour (NC)

lab*lab	0.596	0.17	-0.182
lab*lab	0.596	0.17	-0.182
lab*lab	0.596	0.17	-0.182
lab*lab	0.596	0.17	-0.182

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
olvi3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	76.13	0.0	0.0
LAB*LAB	76.13	0.0	0.0
LAB*LAB	76.13	0.0	0.0
LAB*LAB	76.13	0.0	0.0

relative CIELAB lab*

lab*lab	0.336	0.207	-0.138
lab*lab	0.336	0.207	-0.138
lab*lab	0.336	0.207	-0.138
lab*lab	0.336	0.207	-0.138

relative Natural Colour (NC)

lab*lab	0.336	0.207	-0.138
lab*lab	0.336	0.207	-0.138
lab*lab	0.336	0.207	-0.138
lab*lab	0.336	0.207	-0.138

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
olvi3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	69.7	0.0	0.0
LAB*LAB	69.7	0.0	0.0
LAB*LAB	69.7	0.0	0.0
LAB*LAB	69.7	0.0	0.0

relative CIELAB lab*

lab*lab	0.086	0.207	-0.138
lab*lab	0.086	0.207	-0.138
lab*lab	0.086	0.207	-0.138
lab*lab	0.086	0.207	-0.138

relative Natural Colour (NC)

lab*lab	0.086	0.207	-0.138
lab*lab	0.086	0.207	-0.138
lab*lab	0.086	0.207	-0.138
lab*lab	0.086	0.207	-0.138

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
olvi3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	69.7	0.0	0.0
LAB*LAB	69.7	0.0	0.0
LAB*LAB	69.7	0.0	0.0
LAB*LAB	69.7	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
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
lab*lab	0.0	0.0	0.0

5 step scales for constant CIELAB hue 326/360 = 0.906 (right)

input: `cmv0* setcmvcolor`

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 25/360 = 0.071$

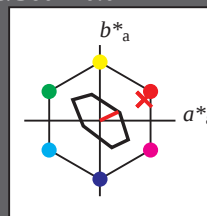
$lab \cdot tch$ and $lab \cdot nch$

D65: hue R

LCH*Ma: 77 27 25

olv*Ma: 1.0 0.05 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 16$

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	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*LAB	95.41	0.0	0.0
LAB*LAB	95.41	0.0	0.0

relative Inform. Technology (IT)

olvi3*	1.0	0.762	0.75	(1.0)
olvi3*	0.0	0.238	0.25	(0.0)
olvi4*	1.0	0.762	0.75	(1.0)
olvi4*	0.0	0.238	0.25	(0.0)
olvi4*	0.0	0.238	0.25	(0.0)
olvi4*	0.0	0.238	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	90.87	6.13	2.92
LAB*LAB	90.87	6.13	2.92
LAB*LAB	90.87	6.13	2.92
LAB*LAB	90.87	6.13	2.92

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.0	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.75	0.512	0.5	(1.0)
olvi3*	0.0	0.488	0.5	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	84.44	6.14	2.92
LAB*LAB	84.44	6.14	2.92
LAB*LAB	84.44	6.14	2.92
LAB*LAB	84.44	6.14	2.92

relative Inform. Technology (IT)

olvi3*	0.75	0.273	0.25	(1.0)
olvi3*	0.0	0.727	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	82.56	0.0	0.0
LAB*LAB	82.56	0.0	0.0
LAB*LAB	82.56	0.0	0.0
LAB*LAB	82.56	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	82.56	0.0	0.0
LAB*LAB	82.56	0.0	0.0
LAB*LAB	82.56	0.0	0.0
LAB*LAB	82.56	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
olvi3*	0.0	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	76.13	5.14	2.92
LAB*LAB	76.13	5.14	2.92
LAB*LAB	76.13	5.14	2.92
LAB*LAB	76.13	5.14	2.92

relative Inform. Technology (IT)

olvi3*	0.25	0.0	0.0	(1.0)
olvi3*	0.0	0.75	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	71.25	6.1	2.92
LAB*LAB	71.25	6.1	2.92
LAB*LAB	71.25	6.1	2.92
LAB*LAB	71.25	6.1	2.92

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
olvi3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	69.7	0.0	0.0
LAB*LAB	69.7	0.0	0.0
LAB*LAB	69.7	0.0	0.0
LAB*LAB	69.7	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
olvi3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	69.7	0.0	0.0
LAB*LAB	69.7	0.0	0.0
LAB*LAB	69.7	0.0	0.0
LAB*LAB	69.7	0.0	0.0

TLS70; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	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	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

relative Inform. Technology (IT)

olvi3*	1.0	0.523	0.5	(1.0)
olvi3*	0.0	0.477	0.5	(0.0)
olvi4*	1.0	0.523	0.5	(1.0)
olvi4*	0.0	0.477	0.5	(0.0)
olvi4*	0.0	0.477	0.5	(0.0)
olvi4*	0.0	0.477	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	86.33	12.27	5.85
LAB*LAB	86.33	12.27	5.85
LAB*LAB	86.33	12.27	5.85
LAB*LAB	86.33	12.27	5.85

relative Inform. Technology (IT)

olvi3*	0.647	0.451	0.215	(1.0)
olvi3*	0.0	0.549	0.215	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	81.79	18.4	8.77
LAB*LAB	81.79	18.4	8.77
LAB*LAB	81.79	18.4	8.77
LAB*LAB	81.79	18.4	8.77

relative Inform. Technology (IT)

olvi3*	0.75	0.033	0.0	(1.0)
olvi3*	0.0	0.967	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	79.9	12.27	5.85
LAB*LAB	79.9	12.27	5.85
LAB*LAB	79.9	12.27	5.85
LAB*LAB	79.9	12.27	5.85

relative Inform. Technology (IT)

olvi3*	0.47	0.677	0.323	(1.0)
olvi3*	0.0	0.323	0.323	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	77.25	24.54	11.69
LAB*LAB	77.25	24.54	11.69
LAB*LAB	77.25	24.54	11.69
LAB*LAB	77.25	24.54	11.69

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	77.25	24.54	11.69
LAB*LAB	77.25	24.54	11.69
LAB*LAB	77.25	24.54	11.69
LAB*LAB	77.25	24.54	11.69

relative Inform. Technology (IT)

olvi3*	0.25	0.963	1.0	(1.0)
olvi3*	0.0	0.037	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	75.36	18.41	8.77
LAB*LAB	75.36	18.41	8.77
LAB*LAB	75.36	18.41	8.77
LAB*LAB	75.36	18.41	8.77

relative Inform. Technology (IT)

olvi3*	0.25	0.0	0.0	(1.0)
olvi3*	0.0	0.75	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	73.47	12.27	5.84
LAB*LAB	73.47	12.27	5.84
LAB*LAB	73.47	12.27	5.84
LAB*LAB	73.47	12.27	5.84

relative Inform. Technology (IT)

olvi3*	0.147	0.451	0.215	(1.0)
olvi3*	0.0	0.549	0.215	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	71.25	6.1	2.92
LAB*LAB	71.25	6.1	2.92
LAB*LAB	71.25	6.1	2.92
LAB*LAB	71.25	6.1	2.92

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

$n^* = 1.00$

$n^* = 1.00$

$n^* = 1.00$

$n^* = 1.00$

$n^* = 1.00$

$n^* = 1.00$

$n^* = 1.00$

$n^* = 1.00$

$n^* = 1.00$

$n^* = 1.00$

$n^* = 1.00$

$n^* = 1.00$

$n^* = 1.00$

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 25/360 = 0.071$

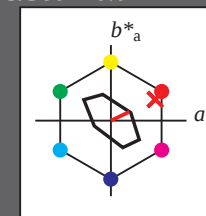
$lab \cdot tch$ and $lab \cdot nch$

D65: hue R

LCH*Ma: 77 27 25

olv*Ma: 1.0 0.05 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 16$

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	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*LAB	95.41	0.0	0.0
LAB*LAB	95.41	0.0	0.0

<

```
output: cmv0* / 000n* setcmvcolor
```

(C)

```
output: cmy0* / 000n* setcmykcolor
```

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