

# Input: Colorimetric Television Luminous System TLS70

for hue  $h^* = lab^*h = 22/360 = 0.061$

$lab^*tch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 76 28 22

olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



% Gamut

$u^*_{rel} = 16$

% Regularity

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

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

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 0.0 -  
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\*nce 1.0 0.0 0.0  
lab\*nceE 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 82.56 0.0 0.0  
LAB\*LABo 82.56 0.0 0.0  
LAB\*TCHo 50.0 0.0 -  
relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*tch 0.5 0.0 -  
lab\*nch 0.5 0.0 -  
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LAB\*LAB 69.7 0.0 0.0  
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LAB\*TCHo 0.0 0.0 -  
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lab\*tch 0.0 0.0 -  
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relative Natural Colour (NC)  
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lab\*nce 0.0 0.0 -  
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$n^* = 1.0$

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standard and adapted CIELAB  
LAB\*LAB 85.92 13.13 5.28  
LAB\*LABo 85.92 13.13 5.28  
LAB\*TCHo 75.0 14.16 21.92  
relative CIELAB lab\*  
lab\*lab 0.631 0.464 0.187  
lab\*tch 0.75 0.5 0.061  
lab\*nch 0.0 0.5 0.061

relative Natural Colour (NC)  
lab\*lrj 0.631 0.499 -0.024  
lab\*nce 0.75 0.5 0.992  
lab\*nceE 0.0 0.5 0.996

relative Inform. Technology (IT)  
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standard and adapted CIELAB  
LAB\*LAB 73.07 13.13 5.28  
LAB\*LABo 73.07 13.13 5.28  
LAB\*TCHo 25.01 14.16 21.92  
relative CIELAB lab\*  
lab\*lab 0.131 0.464 0.187  
lab\*tch 0.25 0.5 0.061  
lab\*nch 0.5 1.0 0.061

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standard and adapted CIELAB  
LAB\*LAB 76.43 26.26 10.57  
LAB\*LABo 76.43 26.26 10.57  
LAB\*TCHo 50.0 28.31 21.92  
relative CIELAB lab\*  
lab\*lab 0.262 0.928 0.373  
lab\*tch 0.262 0.928 0.373  
lab\*nch 0.0 1.0 0.061

relative Natural Colour (NC)  
lab\*lrj 0.262 0.999 -0.048  
lab\*nce 0.5 1.0 0.992  
lab\*nceE 0.0 1.0 0.996

$n^* = 0.00$

blackness  $n^*$

chromaticness  $c^*$

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$n^* = 0.00$

blackness  $n^*$

chromaticness  $c^*$

BAM-test chart OE19; Colorimetric systems TLS70 & TLS70

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

3 step scales for constant CIELAB hue 22/360 = 0.061 (right)

input: cmy0\* setcmycolor

output: no change compared to input