

### Input: Colorimetric Natural Reflective System CNS18

for hue  $h^* = lab^*h = 25/360 = 0.069$

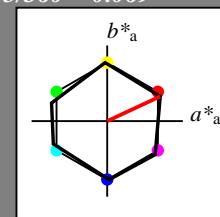
$lab^*tch$  and  $lab^*nch$

D65: hue R

LCH\*Ma: 57 77 25

olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



### CNS18; adapted (a) CIELAB data

	$L^*=L_a^*$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.15	32.71	77.4	25
JMa	56.7	-2.69	77.35	77.4	92
GMa	56.7	-73.6	23.92	77.4	162
G50BMa	56.7	-71.24	-30.23	77.4	203
BMa	56.7	2.7	-77.34	77.4	272
B50RMa	56.7	63.4	-44.38	77.4	325
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	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

relative Inform. Technology (IT)  
 $olv_i3^*$  1.0 1.0 1.0 (1.0)  
 $cmyn3^*$  0.0 0.0 0.0 (0.0)  
 $olv_i4^*$  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  
 $LAB^*TChA$  99.99 0.01 -

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)

$lab^*lrij$  1.0 0.0 0.0  
 $lab^*tce$  1.0 0.0 0.0  
 $lab^*ncE$  0.0 0.0 -

relative Inform. Technology (IT)  
 $olv_i3^*$  0.5 0.5 0.5 (1.0)  
 $cmyn3^*$  0.5 0.5 0.5 (0.0)  
 $olv_i4^*$  1.0 1.0 1.0 0.5  
 $cmyn4^*$  0.0 0.0 0.0 0.5

standard and adapted CIELAB

$LAB^*LAB$  76.05 35.07 16.35  
 $LAB^*LABa$  76.05 35.07 16.35  
 $LAB^*TChA$  75.0 38.69 25.0

relative CIELAB lab\*

$lab^*lab$  0.75 0.453 0.211  
 $lab^*tch$  0.75 0.5 0.069  
 $lab^*nch$  0.0 0.5 0.069

relative Natural Colour (NC)

$lab^*lrij$  0.75 0.5 -0.002  
 $lab^*tce$  0.75 0.5 0.999  
 $lab^*ncE$  0.0 0.5 b99r

relative Inform. Technology (IT)  
 $olv_i3^*$  0.0 0.0 0.0 (1.0)  
 $cmyn3^*$  1.0 1.0 1.0 (0.0)  
 $olv_i4^*$  1.0 1.0 1.0 0.0  
 $cmyn4^*$  0.0 0.0 0.0 1.0

standard and adapted CIELAB

$LAB^*LAB$  18.03 0.0 0.0  
 $LAB^*LABa$  18.03 0.0 0.0  
 $LAB^*TChA$  0.01 0.01 -

relative CIELAB lab\*

$lab^*lab$  0.0 0.0 0.0  
 $lab^*tch$  0.0 0.0 -

$lab^*nch$  1.0 0.0 -

relative Natural Colour (NC)

$lab^*lrij$  0.0 0.0 0.0  
 $lab^*tce$  0.0 0.0 -

$lab^*ncE$  1.0 0.0 -

$n^* = 1,0$

%Gamut

$u^*_{rel} = 100$

%Regularity

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

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

relative Inform. Technology (IT)

$olv_i3^*$  1.0 0.5 0.5 (1.0)

$cmyn3^*$  0.0 0.5 0.5 (0.0)

$olv_i4^*$  1.0 0.5 0.5 1.0

$cmyn4^*$  0.0 0.5 0.5 0.0

standard and adapted CIELAB

$LAB^*LAB$  76.05 35.07 16.35  
 $LAB^*LABa$  76.05 35.07 16.35  
 $LAB^*TChA$  75.0 38.69 25.0

relative CIELAB lab\*

$lab^*lab$  0.75 0.453 0.211

$lab^*tch$  0.75 0.5 0.069

$lab^*nch$  0.0 0.5 0.069

relative Natural Colour (NC)

$lab^*lrij$  0.75 0.5 -0.002

$lab^*tce$  0.75 0.5 0.999

$lab^*ncE$  0.0 0.5 b99r

relative Inform. Technology (IT)

$olv_i3^*$  0.5 0.5 0.5 (1.0)

$cmyn3^*$  0.5 0.5 0.5 (0.0)

$olv_i4^*$  1.0 1.0 1.0 0.5

$cmyn4^*$  0.0 0.0 0.0 0.5

standard and adapted CIELAB

$LAB^*LAB$  37.36 35.07 16.35  
 $LAB^*LABa$  37.36 35.07 16.35  
 $LAB^*TChA$  25.01 38.69 25.0

relative CIELAB lab\*

$lab^*lab$  0.25 0.453 0.211

$lab^*tch$  0.25 0.5 0.069

$lab^*nch$  0.5 0.5 0.069

relative Natural Colour (NC)

$lab^*lrij$  0.25 0.5 -0.002

$lab^*tce$  0.25 0.5 0.999

$lab^*ncE$  0.5 0.5 b99r

relative Inform. Technology (IT)

$olv_i3^*$  0.0 0.0 0.0 (1.0)

$cmyn3^*$  1.0 1.0 1.0 (0.0)

$olv_i4^*$  1.0 1.0 1.0 0.0

$cmyn4^*$  0.0 0.0 0.0 1.0

standard and adapted CIELAB

$LAB^*LAB$  18.03 0.0 0.0  
 $LAB^*LABa$  18.03 0.0 0.0  
 $LAB^*TChA$  0.01 0.01 -

relative CIELAB lab\*

$lab^*lab$  0.0 0.0 0.0

$lab^*tch$  0.0 0.0 -

$lab^*nch$  1.0 0.0 -

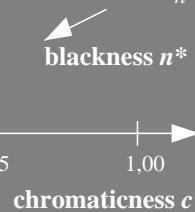
relative Natural Colour (NC)

$lab^*lrij$  0.0 0.0 0.0

$lab^*tce$  0.0 0.0 -

$lab^*ncE$  1.0 0.0 -

$n^* = 0,00$



$n^* = 0,50$

$n^* = 0,00$

$n^* = 1,00$

blackness n\*

chromaticness c\*

### Output: Colorimetric Offset Reflective System ORS18

for hue  $h^* = lab^*h = 25/360 = 0.069$

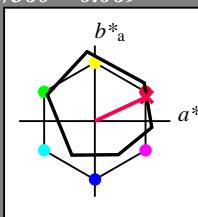
$lab^*tch$  and  $lab^*nch$

D65: hue O

LCH\*Ma: 48 76 25

olv\*Ma: 1.0 0.0 0.32

triangle lightness  $t^*$



%Gamut

$u^*_{rel} = 93$

%Regularity

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

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

relative Inform. Technology (IT)

$olv_i3^*$  1.0 1.0 1.0 (1.0)

$cmyn3^*$  0.0 0.0 0.0 (0.0)

$olv_i4^*$  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  
 $LAB^*TChA$  99.99 0.01 -

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)

$lab^*lrij$  1.0 0.0 0.0

$lab^*tce$  1.0 0.0 0.0

$lab^*ncE$  0.0 0.0 -

relative Inform. Technology (IT)

$olv_i3^*$  0.5 0.5 0.5 (1.0)

$cmyn3^*$  0.5 0.5 0.5 (0.0)

$olv_i4^*$  1.0 0.5 0.658 1.0

$cmyn4^*$  0.0 0.5 0.342 0.0

standard and adapted CIELAB

$LAB^*LAB$  71.7 33.71 19.13  
 $LAB^*LABa$  71.7 34.25 15.97  
 $LAB^*TChA$  75.0 37.79 25.0

relative CIELAB lab\*

$lab^*lab$  0.694 0.453 0.211

$lab^*tch$  0.75 0.5 0.069

$lab^*nch$  0.0 0.5 0.069

relative Natural Colour (NC)

$lab^*lrij$  0.694 0.5 0.003

$lab^*tce$  0.75 0.5 0.001

$lab^*ncE$  0.0 0.5 r00j

$n^* = 1,00$

$n^* = 0,50$

$n^* = 0,00$

blackness n\*

chromaticness c\*

$n^* = 1,00$

$n^* = 0,50$

$n^* = 0,00$

blackness n\*

chromaticness c\*

$n^* = 1,00$

$n^* = 0,50$

$n^* = 0,00$

blackness n\*

chromaticness c\*

$n^* = 1,00$

$n^* = 0,50$

$n^* = 0,00$

blackness n\*

chromaticness c\*

$n^* = 1,00$

$n^* = 0,50$

$n^* = 0,00$

blackness n\*

chromaticness c\*

$n^* = 1,00$

$n^* = 0,50$

$n^* = 0,00$

blackness n\*

chromaticness c\*

$n^* = 1,00$

$n^* = 0,50$

$n^* = 0,00$

blackness n\*

chromaticness c\*

$n^* = 1,00$

$n^* = 0,50$

$n^* = 0,00$

blackness n\*

chromaticness c\*

$n^* = 1,00$

$n^* = 0,50$

$n^* = 0,00$

blackness n\*

chromaticness c\*

$n^* = 1,00$

$n^* = 0,50$

$n^* = 0,00$

blackness n\*

chromaticness c\*

$n^* = 1,00$

$n^* = 0,50$

$n^* = 0,00$