

Input: Colorimetric Natural Reflective System CNS18

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

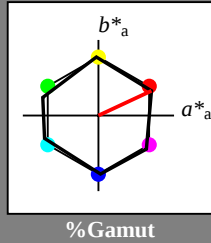
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 57 77 25

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



$u^*_{rel} = 100$

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
 $LAB^*LAB \ 95.41 \ 0.0 \ 0.0$
 $LAB^*LABa \ 95.41 \ 0.0 \ 0.0$
 $LAB^*TCha \ 99.99 \ 0.01 \ -$

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)
 $lab^*trj \ 1.0 \ 0.0 \ 0.0$
 $lab^*tce \ 0.0 \ 0.0 \ -$
 $lab^*nce \ 0.0 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* \ 0.75 \ 0.75 \ 0.75 \ 1.0$
 $cmyn3^* \ 0.25 \ 0.25 \ 0.25 \ 0.0$
 $olvi4^* \ 1.0 \ 1.0 \ 1.0 \ 0.75$
 $cmyn4^* \ 0.0 \ 0.0 \ 0.0 \ 0.25$
 standard and adapted CIELAB
 $LAB^*LAB \ 76.07 \ 0.0 \ 0.0$
 $LAB^*LABa \ 76.07 \ 0.0 \ 0.0$
 $LAB^*TCha \ 75.01 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab \ 0.75 \ 0.0 \ 0.0$
 $lab^*tch \ 0.75 \ 0.0 \ -$
 $lab^*nch \ 0.0 \ 0.0 \ -$
 relative Natural Colour (NC)
 $lab^*trj \ 0.75 \ 0.0 \ 0.0$
 $lab^*tce \ 0.25 \ 0.0 \ -$
 $lab^*nce \ 0.25 \ 0.0 \ -$

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
 $LAB^*LAB \ 56.72 \ 0.0 \ 0.0$
 $LAB^*LABa \ 56.72 \ 0.0 \ 0.0$
 $LAB^*TCha \ 50.01 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab \ 0.5 \ 0.0 \ 0.0$
 $lab^*tch \ 0.5 \ 0.0 \ -$
 $lab^*nch \ 0.0 \ 0.0 \ -$
 relative Natural Colour (NC)
 $lab^*trj \ 0.5 \ 0.0 \ 0.0$
 $lab^*tce \ 0.5 \ 0.0 \ -$
 $lab^*nce \ 0.5 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* \ 0.25 \ 0.25 \ 0.25 \ 1.0$
 $cmyn3^* \ 0.75 \ 0.75 \ 0.75 \ 0.0$
 $olvi4^* \ 1.0 \ 1.0 \ 1.0 \ 0.25$
 $cmyn4^* \ 0.0 \ 0.0 \ 0.0 \ 0.75$
 standard and adapted CIELAB
 $LAB^*LAB \ 37.37 \ 0.0 \ 0.0$
 $LAB^*LABa \ 37.37 \ 0.0 \ 0.0$
 $LAB^*TCha \ 25.01 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab \ 0.25 \ 0.0 \ 0.0$
 $lab^*tch \ 0.25 \ 0.0 \ -$
 $lab^*nch \ 0.0 \ 0.0 \ -$
 relative Natural Colour (NC)
 $lab^*trj \ 0.25 \ 0.0 \ 0.0$
 $lab^*tce \ 0.25 \ 0.0 \ -$
 $lab^*nce \ 0.25 \ 0.0 \ -$

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
 $LAB^*LAB \ 18.03 \ 0.0 \ 0.0$
 $LAB^*LABa \ 18.03 \ 0.0 \ 0.0$
 $LAB^*TCha \ 0.01 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab \ 0.0 \ 0.0 \ 0.0$
 $lab^*tch \ 0.0 \ 0.0 \ -$
 $lab^*nch \ 0.0 \ 0.0 \ -$
 relative Natural Colour (NC)
 $lab^*trj \ 0.0 \ 0.0 \ 0.0$
 $lab^*tce \ 0.0 \ 0.0 \ -$
 $lab^*nce \ 0.0 \ 0.0 \ -$

$n^* = 1,0$

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

%Regularity

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

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

Output: Colorimetric Printer Reflective System FRS06

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

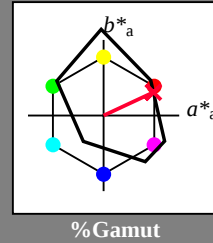
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 33 73 25

olv*Ma: 1.0 0.0 0.2

triangle lightness t^*



$u^*_{rel} = 115$

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
 $LAB^*LAB \ 91.97 \ 0.17 \ -3.11$
 $LAB^*LABa \ 91.97 \ 0.0 \ 0.0$
 $LAB^*TCha \ 99.99 \ 0.01 \ -$

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)
 $lab^*trj \ 1.0 \ 0.0 \ 0.0$
 $lab^*tce \ 0.0 \ 0.0 \ -$
 $lab^*nce \ 0.0 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* \ 0.75 \ 0.75 \ 0.75 \ 1.0$
 $cmyn3^* \ 0.25 \ 0.25 \ 0.25 \ 0.0$
 $olvi4^* \ 1.0 \ 1.0 \ 1.0 \ 0.75$
 $cmyn4^* \ 0.0 \ 0.0 \ 0.0 \ 0.25$
 standard and adapted CIELAB
 $LAB^*LAB \ 70.54 \ 0.53 \ -4.26$
 $LAB^*LABa \ 70.54 \ 0.0 \ 0.0$
 $LAB^*TCha \ 75.01 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab \ 0.75 \ 0.0 \ 0.0$
 $lab^*tch \ 0.75 \ 0.0 \ -$
 $lab^*nch \ 0.0 \ 0.0 \ -$
 relative Natural Colour (NC)
 $lab^*trj \ 0.75 \ 0.0 \ 0.0$
 $lab^*tce \ 0.25 \ 0.0 \ -$
 $lab^*nce \ 0.25 \ 0.0 \ -$

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
 $LAB^*LAB \ 56.72 \ 0.0 \ 0.0$
 $LAB^*LABa \ 56.72 \ 0.0 \ 0.0$
 $LAB^*TCha \ 50.01 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab \ 0.5 \ 0.0 \ 0.0$
 $lab^*tch \ 0.5 \ 0.0 \ -$
 $lab^*nch \ 0.0 \ 0.0 \ -$
 relative Natural Colour (NC)
 $lab^*trj \ 0.5 \ 0.0 \ 0.0$
 $lab^*tce \ 0.5 \ 0.0 \ -$
 $lab^*nce \ 0.5 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* \ 0.25 \ 0.25 \ 0.25 \ 1.0$
 $cmyn3^* \ 0.75 \ 0.75 \ 0.75 \ 0.0$
 $olvi4^* \ 1.0 \ 1.0 \ 1.0 \ 0.25$
 $cmyn4^* \ 0.0 \ 0.0 \ 0.0 \ 0.75$
 standard and adapted CIELAB
 $LAB^*LAB \ 37.37 \ 0.0 \ 0.0$
 $LAB^*LABa \ 37.37 \ 0.0 \ 0.0$
 $LAB^*TCha \ 25.01 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab \ 0.25 \ 0.0 \ 0.0$
 $lab^*tch \ 0.25 \ 0.0 \ -$
 $lab^*nch \ 0.0 \ 0.0 \ -$
 relative Natural Colour (NC)
 $lab^*trj \ 0.25 \ 0.0 \ 0.0$
 $lab^*tce \ 0.25 \ 0.0 \ -$
 $lab^*nce \ 0.25 \ 0.0 \ -$

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
 $LAB^*LAB \ 18.03 \ 0.0 \ 0.0$
 $LAB^*LABa \ 18.03 \ 0.0 \ 0.0$
 $LAB^*TCha \ 0.01 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab \ 0.0 \ 0.0 \ 0.0$
 $lab^*tch \ 0.0 \ 0.0 \ -$
 $lab^*nch \ 0.0 \ 0.0 \ -$
 relative Natural Colour (NC)
 $lab^*trj \ 0.0 \ 0.0 \ 0.0$
 $lab^*tce \ 0.0 \ 0.0 \ -$
 $lab^*nce \ 0.0 \ 0.0 \ -$

$n^* = 1,0$

FRS06; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	32.57	62.32	46.49	77.75	37
YMa	82.73	-3.16	113.99	114.03	92
LMa	39.43	-61.79	45.84	76.95	143
CMa	47.86	-26.79	-34.24	43.49	232
VMa	10.16	55.12	-61.03	82.24	312
MMa	34.5	80.68	-33.92	87.52	337
NMa	6.25	0.0	0.0	0.0	0
WMa	91.97	0.0	0.0	0.0	0
RCIE	39.92	59.8	31.05	67.38	27
JCIE	81.26	-2.52	76.25	76.29	92
GCIE	52.23	-41.56	17.14	44.96	158
BCIE	30.57	2.63	-43.77	43.86	273

%Regularity

$g^*_{H,rel} = 28$

$g^*_{C,rel} = 38$

relative Inform. Technology (IT)
 $olvi3^* \ 1.0 \ 0.5 \ 0.598 \ 1.0$
 $cmyn3^* \ 0.0 \ 0.5 \ 0.402 \ 0.0$
 $olvi4^* \ 1.0 \ 0.5 \ 0.598 \ 1.0$
 $cmyn4^* \ 0.0 \ 0.5 \ 0.402 \ 0.0$
 standard and adapted CIELAB
 $LAB^*LAB \ 62.46 \ 32.27 \ 11.42$
 $LAB^*LABa \ 62.46 \ 32.95 \ 15.36$
 $LAB^*TCha \ 75.01 \ 36.36 \ 25.0$

relative CIELAB lab*
 $lab^*lab \ 0.656 \ 0.453 \ 0.211$
 $lab^*tch \ 0.75 \ 0.5 \ 0.069$
 $lab^*nch \ 0.0 \ 0.5 \ 0.069$
 relative Natural Colour (NC)
 $lab^*trj \ 0.656 \ 0.453 \ 0.211$
 $lab^*tce \ 0.75 \ 0.5 \ 0.069$
 $lab^*nce \ 0.0 \ 0.5 \ 0.069$

relative Inform. Technology (IT)
 $olvi3^* \ 0.75 \ 0.5 \ 0.549 \ 1.0$
 $cmyn3^* \ 0.25 \ 0.5 \ 0.451 \ 0.0$
 $olvi4^* \ 1.0 \ 0.5 \ 0.549 \ 0.75$
 $cmyn4^* \ 0.0 \ 0.25 \ 0.201 \ 0.25$
 standard and adapted CIELAB
 $LAB^*LAB \ 55.78 \ 15.69 \ 4.0$
 $LAB^*LABa \ 55.78 \ 16.48 \ 7.68$
 $LAB^*TCha \ 62.5 \ 18.18 \ 24.99$

relative CIELAB lab*
 $lab^*lab \ 0.578 \ 0.227 \ 0.106$
 $lab^*tch \ 0.625 \ 0.25 \ 0.069$
 $lab^*nch \ 0.25 \ 0.25 \ 0.069$
 relative Natural Colour (NC)
 $lab^*trj \ 0.578 \ 0.227 \ 0.106$
 $lab^*tce \ 0.625 \ 0.25 \ 0.069$
 $lab^*nce \ 0.25 \ 0.25 \ 0.069$

relative Inform. Technology (IT)
 $olvi3^* \ 0.5 \ 0.5 \ 0.5 \ 1.0$
 $cmyn3^* \ 0.5 \ 0.5 \ 0.5 \ 0.0$
 $olvi4^* \ 1.0 \ 1.0 \ 1.0 \ 0.5$
 $cmyn4^* \ 0.0 \ 0.5 \ 0.5 \ 0.5$
 standard and adapted CIELAB
 $LAB^*LAB \ 49.11 \ 0.0 \ 0.0$
 $LAB^*LABa \ 49.11 \ 0.0 \ 0.0$
 $LAB^*TCha \ 50.01 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab \ 0.5 \ 0.0 \ 0.0$
 $lab^*tch \ 0.5 \ 0.0 \ -$
 $lab^*nch \ 0.0 \ 0.0 \ -$
 relative Natural Colour (NC)
 $lab^*trj \ 0.5 \ 0.0 \ 0.0$
 $lab^*tce \ 0.5 \ 0.0 \ -$
 $lab^*nce \ 0.5 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* \ 0.25 \ 0.25 \ 0.25 \ 1.0$
 $cmyn3^* \ 0.75 \ 0.75 \ 0.75 \ 0.0$
 $olvi4^* \ 1.0 \ 1.0 \ 1.0 \ 0.25$
 $cmyn4^* \ 0.0 \ 0.25 \ 0.201 \ 0.75$
 standard and adapted CIELAB
 $LAB^*LAB \ 37.37 \ 0.0 \ 0.0$
 $LAB^*LABa \ 37.37 \ 0.0 \ 0.0$
 $LAB^*TCha \ 25.01 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab \ 0.25 \ 0.0 \ 0.0$
 $lab^*tch \ 0.25 \ 0.0 \ -$
 $lab^*nch \ 0.0 \ 0.0 \ -$
 relative Natural Colour (NC)
 $lab^*trj \ 0.25 \ 0.0 \ 0.0$
 $lab^*tce \ 0.25 \ 0.0 \ -$
 $lab^*nce \ 0.25 \ 0.0 \ -$

$n^* = 0,50$

$n^* = 0,25$

chromaticness c^*