

Input: Colorimetric Natural Reflective System CNS18

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

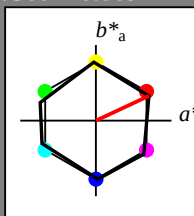
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 57 77 25

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



% Gamut

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
LAB*LAB	95.41	0.0	0.0	
LAB*LAB	95.41	0.0	0.0	
LAB*LAB	99.99	0.01	0.0	

relative CIELAB lab*

lab*lab	1.0	0.0	0.0	
lab*lab	1.0	0.0	0.0	
lab*lab	0.0	1.0	0.0	
lab*lab	0.0	0.0	1.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
LAB*LAB	95.41	0.0	0.0	
LAB*LAB	95.41	0.0	0.0	
LAB*LAB	99.99	0.01	0.0	

relative Natural Colour (NC)

lab*lab	1.0	0.0	0.0	
lab*lab	1.0	0.0	0.0	
lab*lab	0.0	1.0	0.0	
lab*lab	0.0	0.0	1.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
LAB*LAB	95.41	0.0	0.0	
LAB*LAB	95.41	0.0	0.0	
LAB*LAB	99.99	0.01	0.0	

standard and adapted CIELAB

LAB*LAB	76.07	0.0	0.0	
LAB*LAB	76.07	0.0	0.0	
LAB*LAB	76.07	0.0	0.0	
LAB*LAB	76.07	0.0	0.0	
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LAB*LAB	76.07	0.0	0.0	
LAB*LAB	76.07	0.0	0.0	
LAB*LAB	76.07	0.0	0.0	

relative CIELAB lab*

lab*lab	0.75	0.75	0.75	(1.0)
lab*lab	0.25	0.25	0.25	(0.0)
lab*lab	0.75	0.75	0.75	(1.0)
lab*lab	0.25	0.25	0.25	(0.0)
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relative Natural Colour (NC)

lab*lab	0.75	0.75	0.75	(1.0)
lab*lab	0.25	0.25	0.25	(0.0)
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standard and adapted CIELAB

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relative CIELAB lab*

lab*lab	0.75	0.75	0.75	(1.0)
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LAB*LAB	76.07	0.0	0.0	

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

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

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

relative Inform. Technology (IT)

olv3*	1.0	0.5	0.5	(1.0)
olv3*	0.5	1.0	0.5	(1.0)
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olv3*	0.5	0.5	0.5	(0.0)
olv3*	0.5	0.5	0.5	(0.0)
LAB*LAB	76.05	35.07	16.35	
LAB*LAB	76.05	35.07	16.35	
LAB*LAB	76.05	35.07	16.35	

relative Natural Colour (NC)

lab*lab	0.75	0.75	0.75	(1.0)
lab*lab	0.25	0.25	0.25	(0.0)
lab*lab	0.75	0.75	0.75	(1.0)
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standard and adapted CIELAB

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standard and adapted CIELAB

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relative Inform. Technology (IT)

olv3*	1.0	0.5	0.5	(1.0)
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LAB*LAB	76.05	35.07	16.35	
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standard and adapted CIELAB

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LAB*LAB	76.05	35.07	16.35	
LAB*LAB	76.05	35.07	16.35	
LAB*LAB	76.05	35.07	16.35	
LAB*LAB	76.05	35.07	16.35	
LAB*LAB	76.05	35.07	16.35	

<i>olvi3*</i>	0.75	0.0	0.0
<i>cmyn3*</i>	0.25	1.0	1.0
<i>olvi4*</i>	1.0	0.25	0.25
<i>cmyn4*</i>	0.0	0.75	0.75
standard and adapted CIELAB			
LAB*LAB	47.03	52.6	
LAB*LABa	47.03	52.6	
LAB*TCHa	37.51	58.04	
relative CIELAB lab*			
lab*lab	0.275	0.68	

Input: Colorimetric Natural Reflective System CNS18

for hue $h^* = lab^*h = 162/360 = 0.45$

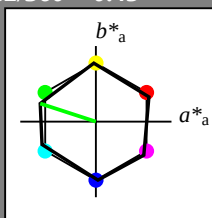
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 77 162

olv*Ma: 0.0 1.0 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
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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

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

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

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	1.0	1.0	1.0	(1.0)
olv8*	0.0	0.0	0.0	(0.0)
olv9*	1.0	1.0	1.0	(1.0)
olv10*	0.0	0.0	0.0	(0.0)
olv11*	1.0	1.0	1.0	(1.0)
olv12*	0.0	0.0	0.0	(0.0)
olv13*	1.0	1.0	1.0	(1.0)
olv14*	0.0	0.0	0.0	(0.0)
olv15*	1.0	1.0	1.0	(1.0)
olv16*	0.0	0.0	0.0	(0.0)
olv17*	1.0	1.0	1.0	(1.0)
olv18*	0.0	0.0	0.0	(0.0)
olv19*	1.0	1.0	1.0	(1.0)
olv20*	0.0	0.0	0.0	(0.0)
olv21*	1.0	1.0	1.0	(1.0)
olv22*	0.0	0.0	0.0	(0.0)
olv23*	1.0	1.0	1.0	(1.0)
olv24*	0.0	0.0	0.0	(0.0)
olv25*	1.0	1.0	1.0	(1.0)
olv26*	0.0	0.0	0.0	(0.0)
olv27*	1.0	1.0	1.0	(1.0)
olv28*	0.0	0.0	0.0	(0.0)
olv29*	1.0	1.0	1.0	(1.0)
olv30*	0.0	0.0	0.0	(0.0)
olv31*	1.0	1.0	1.0	(1.0)
olv32*	0.0	0.0	0.0	(0.0)
olv33*	1.0	1.0	1.0	(1.0)
olv34*	0.0	0.0	0.0	(0.0)
olv35*	1.0	1.0	1.0	(1.0)
olv36*	0.0	0.0	0.0	(0.0)
olv37*	1.0	1.0	1.0	(1.0)
olv38*	0.0	0.0	0.0	(0.0)
olv39*	1.0	1.0	1.0	(1.0)
olv40*	0.0	0.0	0.0	(0.0)
olv41*	1.0	1.0	1.0	(1.0)
olv42*	0.0	0.0	0.0	(0.0)
olv43*	1.0	1.0	1.0	(1.0)
olv44*	0.0	0.0	0.0	(0.0)
olv45*	1.0	1.0	1.0	(1.0)
olv46*	0.0	0.0	0.0	(0.0)
olv47*	1.0	1.0	1.0	(1.0)
olv48*	0.0	0.0	0.0	(0.0)
olv49*	1.0	1.0	1.0	(1.0)
olv50*	0.0	0.0	0.0	(0.0)
olv51*	1.0	1.0	1.0	(1.0)
olv52*	0.0	0.0	0.0	(0.0)
olv53*	1.0	1.0	1.0	(1.0)
olv54*	0.0	0.0	0.0	(0.0)
olv55*	1.0	1.0	1.0	(1.0)
olv56*	0.0	0.0	0.0	(0.0)
olv57*	1.0	1.0	1.0	(1.0)
olv58*	0.0	0.0	0.0	(0.0)
olv59*	1.0	1.0	1.0	(1.0)
olv60*	0.0	0.0	0.0	(0.0)
olv61*	1.0	1.0	1.0	(1.0)
olv62*	0.0	0.0	0.0	(0.0)
olv63*	1.0	1.0	1.0	(1.0)
olv64*	0.0	0.0	0.0	(0.0)
olv65*	1.0	1.0	1.0	(1.0)
olv66*	0.0	0.0	0.0	(0.0)
olv67*	1.0	1.0	1.0	(1.0)
olv68*	0.0	0.0	0.0	(0.0)
olv69*	1.0	1.0	1.0	(1.0)
olv70*	0.0	0.0	0.0	(0.0)
olv71*	1.0	1.0	1.0	(1.0)
olv72*	0.0	0.0	0.0	(0.0)
olv73*	1.0	1.0	1.0	(1.0)
olv74*	0.0	0.0	0.0	(0.0)
olv75*	1.0	1.0	1.0	(1.0)
olv76*	0.0	0.0	0.0	(0.0)
olv77*	1.0	1.0	1.0	(1.0)
olv78*	0.0	0.0	0.0	(0.0)
olv79*	1.0	1.0	1.0	(1.0)
olv80*	0.0	0.0	0.0	(0.0)
olv81*	1.0	1.0	1.0	(1.0)
olv82*	0.0	0.0	0.0	(0.0)
olv83*	1.0	1.0	1.0	(1.0)
olv84*	0.0	0.0	0.0	(0.0)
olv85*	1.0	1.0	1.0	(1.0)
olv86*	0.0	0.0	0.0	(0.0)
olv87*	1.0	1.0	1.0	(1.0)
olv88*	0.0	0.0	0.0	(0.0)
olv89*	1.0	1.0	1.0	(1.0)
olv90*	0.0	0.0	0.0	(0.0)
olv91*	1.0	1.0	1.0	(1.0)
olv92*	0.0	0.0	0.0	(0.0)
olv93*	1.0	1.0	1.0	(1.0)
olv94*	0.0	0.0	0.0	(0.0)
olv95*	1.0	1.0	1.0	(1.0)
olv96*	0.0	0.0	0.0	(0.0)
olv97*	1.0	1.0	1.0	(1.0)
olv98*	0.0	0.0	0.0	(0.0)
olv99*	1.0	1.0	1.0	(1.0)
olv100*	0.0	0.0	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)
olv7*	0.75	1.0	0.75	(1.0)
olv8*	0.25	0.0	0.25	(0.0)
olv9*	0.75	1.0	0.75	(1.0)
olv10*	0.25	0.0	0.25	(0.0)
olv11*	0.75	1.0	0.75	(1.0)
olv12*	0.25	0.0	0.25	(0.0)
olv13*	0.75	1.0	0.75	(1.0)
olv14*	0.25	0.0	0.25	(0.0)
olv15*	0.75	1.0	0.75	(1.0)
olv16*	0.25	0.0	0.25	(0.0)
olv17*	0.75	1.0	0.75	(1.0)
olv18*	0.25	0.0	0.25	(0.0)
olv19*	0.75	1.0	0.75	(1.0)
olv20*	0.25	0.0	0.25	(0.0)
olv21*	0.75	1.0	0.75	(1.0)
olv22*	0.25	0.0	0.25	(0.0)
olv23*	0.75	1.0	0.75	(1.0)
olv24*	0.25	0.0	0.25	(0.0)
olv25*	0.75	1.0	0.75	(1.0)
olv26*	0.25	0.0	0.25	(0.0)
olv27*	0.75	1.0	0.75	(1.0)
olv28*	0.25	0.0	0.25	(0.0)
olv29*	0.75	1.0	0.75	(1.0)
olv30*	0.25	0.0	0.25	(0.0)
olv31*	0.75	1.0	0.75	(1.0)
olv32*	0.25	0.0	0.25	(0.0)
olv33*	0.75	1.0	0.75	(1.0)
olv34*	0.25	0.0	0.25	(0.0)
olv35*	0.75	1.0	0.75	(1.0)
olv36*	0.25	0.0	0.25	(0.0)
olv37*	0.75	1.0	0.75	(1.0)
olv38*	0.25	0.0	0.25	(0.0)
olv39*	0.75	1.0	0.75	(1.0)
olv40*	0.25	0.0	0.25	(0.0)
olv41*	0.75	1.0	0.75	(1.0)
olv42*	0.25	0.0	0.25	(0.0)
olv43*	0.75	1.0	0.75	(1.0)
olv44*	0.25	0.0	0.25	(0.0)
olv45*	0.75	1.0	0.75	(1.0)
olv46*	0.25	0.0	0.25	(0.0)
olv47*	0.75	1.0	0.75	(1.0)
olv48*	0.25	0.0	0.25	(0.0)
olv49*	0.75	1.0	0.75	(1.0)
olv50*	0.25	0.0	0.25	(0.0)
olv51*	0.75	1.0	0.75	(1.0)
olv52*	0.25	0.0	0.25	(0.0)
olv53*	0.75	1.0	0.75	(1.0)
olv54*	0.25	0.0	0.25	(0.0)
olv55*	0.75	1.0	0.75	(1.0)
olv56*	0.25	0.0	0.25	(0.0)
olv57*	0.75	1.0	0.75	(1.0)
olv58*	0.25	0.0	0.25	(0.0)
olv59*	0.75	1.0	0.75	(1.0)
olv60*	0.25	0.0	0.25	(0.0)
olv61*	0.75	1.0	0.75	(1.0)
olv62*	0.25	0.0	0.25	(0.0)
olv63*	0.75	1.0	0.75	(1.0)
olv64*	0.25	0.0	0.25	(0.0)
olv65*	0.75	1.0	0.75	(1.0)
olv66*	0.25	0.0	0.25	(0.0)
olv67*	0.75	1.0	0.75	(1.0)
olv68*	0.25	0.0	0.25	(0.0)
olv69*	0.75	1.0	0.75	(1.0)
olv70*	0.25	0.0	0.25	(0.0)
olv71*	0.75	1.0	0.75	(1.0)
olv72*	0.25	0.0	0.25	(0.0)
olv73*	0.75	1.0	0.75	(1.0)
olv74*	0.25	0.0	0.25	(0.0)
olv75*	0.75	1.0	0.75	(1.0)
olv76*	0.25	0.0	0.25	(0.0)
olv77*	0.75	1.0	0.75	(1.0)
olv78*	0.25	0.0	0.25	(0.0)
olv79*	0.75	1.0	0.75	(1.0)
olv80*	0.25	0.0	0.25	(0.0)
olv81*	0.75	1.0	0.75	(1.0)
olv82*	0.25	0.0	0.25	(0.0)
olv83*	0.75	1.0	0.75	(1.0)
olv84*	0.25	0.0	0.25	(0.0)
olv85*	0.75	1.0	0.75	(1.0)
olv86*	0.25	0.0	0.25	(0.0)
olv87*	0.75	1.0	0.75	(1.0)
olv88*	0.25	0.0	0.25	(0.0)
olv89*	0.75	1.0	0.75	(1.0)
olv90*	0.25	0.0	0.25	(0.0)
olv91*	0.75	1.0	0.75	(1.0)
olv92*	0.25	0.0	0.25	(0.0)
olv93*	0.75	1.0	0.75	(1.0)
olv94*	0.25	0.0	0.25	(0.0)
olv95*	0.75	1.0	0.75	(1.0)
olv96*	0.25	0.0	0.25	(0.0)
olv97*	0.75	1.0	0.75	(1.0)
olv98*	0.25	0.0	0.25	(0.0)
olv99*	0.75	1.0	0.75	(1.0)
olv100*	0.25	0.0	0.25	(0.0)

relative Inform. Technology (IT)

olv3*	0.5	1.0	0.5	(1.0)
cmyn3*	0.5	0.0	0.5	(0.0)
olv4*	0.5	1.0	0.5	1.0
cmyn4*	0.5	0.0	0.5	0.0

standard and adapted CIELAB

LAB*LAB	76.05	-36.79	11.96
LAR*LAR _a	76.05	-36.79	11.96

Input: Colorimetric Natural Reflective System CNS18

for hue $h^* = lab^*h = 203/360 = 0.564$

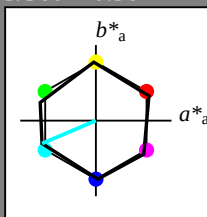
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 57 77 203

olv*Ma: 0.0 1.0 1.0

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

%Regularity

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

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

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 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 Inform. Technology (IT)
olv3* 0.75 1.0 1.0 (1.0)
cmyn3* 0.25 0.0 0.0 (0.0)
olv4* 0.75 1.0 1.0 (1.0)
cmyn4* 0.25 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 85.73 -17.79 -7.55
LAB*LABa 85.73 -17.79 -7.55
LAB*TCHa 97.5 19.34 203.0

relative Inform. Technology (IT)
olv3* 0.5 1.0 1.0 (1.0)
cmyn3* 0.5 0.0 0.0 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.05 -35.61 -15.11
LAB*LABa 76.05 -35.61 -15.11
LAB*TCHa 75.0 38.69 203.0

relative Inform. Technology (IT)
olv3* 0.25 1.0 1.0 (1.0)
cmyn3* 0.25 0.0 0.0 (0.0)
olv4* 0.25 1.0 1.0 (1.0)
cmyn4* 0.25 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 66.37 -53.42 -22.67
LAB*LABa 66.37 -53.42 -22.67
LAB*TCHa 62.5 58.04 203.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.07 0.0 0.0
LAB*LABa 76.07 0.0 0.0
LAB*TCHa 75.0 0.01

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 66.38 -17.8 -7.55
LAB*LABa 66.38 -17.8 -7.55
LAB*TCHa 62.5 19.35 203.0

relative Inform. Technology (IT)
olv3* 0.5 0.75 0.75 (1.0)
cmyn3* 0.5 0.25 0.25 (0.0)
olv4* 0.75 1.0 1.0 (1.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -35.61 -15.11
LAB*LABa 56.71 -35.61 -15.11
LAB*TCHa 50.0 38.7 203.0

relative Inform. Technology (IT)
olv3* 0.25 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmyn4* 0.25 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.03 -53.42 -22.67
LAB*LABa 47.03 -53.42 -22.67
LAB*TCHa 37.5 58.04 203.0

relative Inform. Technology (IT)
olv3* 0.75 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.72 0.0 0.0
LAB*LABa 56.72 0.0 0.0
LAB*TCHa 50.0 0.01

relative Inform. Technology (IT)
olv3* 0.75 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.03 -17.8 -7.55
LAB*LABa 47.03 -17.8 -7.55
LAB*TCHa 37.5 19.35 203.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -35.61 -15.11
LAB*LABa 37.36 -35.61 -15.11
LAB*TCHa 25.0 38.7 203.0

relative Inform. Technology (IT)
olv3* 0.25 0.5 0.5 (0.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmyn4* 0.25 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 27.36 -53.42 -22.67
LAB*LABa 27.36 -53.42 -22.67
LAB*TCHa 12.5 58.04 203.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.37 0.0 0.0
LAB*LABa 37.37 0.0 0.0
LAB*TCHa 25.0 0.01

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 27.36 -17.8 -7.55
LAB*LABa 27.36 -17.8 -7.55
LAB*TCHa 12.5 19.34 203.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.03 18.03 0.0
LAB*LABa 18.03 18.03 0.0
LAB*TCHa 0.01 0.01

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 6.26 0.0 0.0
LAB*LABa 6.26 0.0 0.0
LAB*TCHa 0.0 0.01

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*TCHa 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*TCHa 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*TCHa 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*TCHa 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*TCHa 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*TCHa 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*TCHa 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*TCHa 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*TCHa 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*TCHa 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*TCHa 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*TCHa 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*TCHa 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*TCHa 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*TCHa 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*TCHa 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*TCHa 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*TCHa 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*TCHa 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*TCHa 0.0 0.0

VE35-7, 5 step scales for constant CIELAB hue 203/360 = 0.564 (left)

BAM-test chart VE35; Colorimetric systems CNS18 & FRS06

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

Output: Colorimetric Printer Reflective System FRS06

for hue $h^* = lab^*h = 203/360 = 0.564$

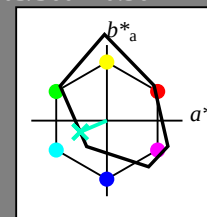
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 46 38 203

olv*Ma: 0.0 1.0 0.76

triangle lightness t^*



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
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)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 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 -5.11
LAB*LABa 91.97 0.0 0.0
LAB*TCHa 99.99 0.01

relative Inform. Technology (IT)
olv3* 0.75 1.0 1.0 (1.0)
cmyn3* 0.25 0.0 0.0 (0.0)
olv4* 0.75 1.0 1.0 (1.0)
cmyn4* 0.25 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 80.43 -9.17 -8.39
LAB*LABa 80.43 -9.17 -8.39
LAB*TCHa 87.5 9.57 203.04

relative Inform. Technology (IT)
olv3* 0.5 1.0 1.0 (1.0)
cmyn3* 0.5 0.0 0.0 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 68.9 -8.8 -3.73
LAB*LABa 68.9 -8.8 -3.73
LAB*TCHa 75.0 19.3 203.02

relative Inform. Technology (IT)
olv3* 0.25 1.0 1.0 (1.0)
cmyn3* 0.25 0.0 0.0 (0.0)
olv4* 0.25 1.0 1.0 (1.0)
cmyn4* 0.25 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 59.0 -9.54 -7.54
LAB*LABa 59.0 -9.54 -7.54
LAB*TCHa 62.5 19.3 203.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 70.54 -0.53 -4.26
LAB*LABa 70.54 -0.53 -4.26
LAB*TCHa 75.0 0.01

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 59.0 -9.54 -7.54
LAB*LABa 59.0 -9.54 -7.54
LAB*TCHa 62.5 19.3 203.0

relative Inform. Technology (IT)
olv3* 0.5 0.75 0.75 (1.0)
cmyn3* 0.5 0.25 0.25 (0.0)
olv4* 0.75 1.0 1.0 (1.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 49.11 -0.89 -3.42
LAB*LABa 49.11 -0.89 -3.42
LAB*TCHa 50.0 0.01

relative Inform. Technology (IT)
olv3* 0.25 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmyn4* 0.25 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.51 -58.04 -20.30
LAB*LABa 37.51 -58.04 -20.30
LAB*TCHa 25.0 38.7 203.0

relative Inform. Technology (IT)
olv3* 0.75 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -35.61 -15.11
LAB*LABa 56.71 -35.61 -15.11
LAB*TCHa 50.0 38.7 203.0

relative Inform. Technology (IT)
olv3* 0.75 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 49.11 -0.89 -3.42
LAB*LABa 49.11 -0.89 -3.42
LAB*TCHa 50.0 0.01

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -35.6

Input: Colorimetric Natural Reflective System CNS18

for hue $h^* = lab^*h = 272/360 = 0.756$

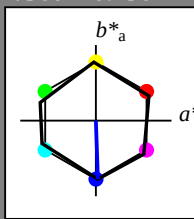
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 77 272

olv*Ma: 0.0 0.0 1.0

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

%Regularity

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

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

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	0.0	0.0	0.0	(0.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	0.0	0.0	0.0	(0.0)
olv8*	0.0	0.0	0.0	(0.0)
olv9*	0.0	0.0	0.0	(0.0)
olv10*	0.0	0.0	0.0	(0.0)
olv11*	0.0	0.0	0.0	(0.0)
olv12*	0.0	0.0	0.0	(0.0)
olv13*	0.0	0.0	0.0	(0.0)
olv14*	0.0	0.0	0.0	(0.0)
olv15*	0.0	0.0	0.0	(0.0)
olv16*	0.0	0.0	0.0	(0.0)
olv17*	0.0	0.0	0.0	(0.0)
olv18*	0.0	0.0	0.0	(0.0)
olv19*	0.0	0.0	0.0	(0.0)
olv20*	0.0	0.0	0.0	(0.0)
olv21*	0.0	0.0	0.0	(0.0)
olv22*	0.0	0.0	0.0	(0.0)
olv23*	0.0	0.0	0.0	(0.0)
olv24*	0.0	0.0	0.0	(0.0)
olv25*	0.0	0.0	0.0	(0.0)
olv26*	0.0	0.0	0.0	(0.0)
olv27*	0.0	0.0	0.0	(0.0)
olv28*	0.0	0.0	0.0	(0.0)
olv29*	0.0	0.0	0.0	(0.0)
olv30*	0.0	0.0	0.0	(0.0)
olv31*	0.0	0.0	0.0	(0.0)
olv32*	0.0	0.0	0.0	(0.0)
olv33*	0.0	0.0	0.0	(0.0)
olv34*	0.0	0.0	0.0	(0.0)
olv35*	0.0	0.0	0.0	(0.0)
olv36*	0.0	0.0	0.0	(0.0)
olv37*	0.0	0.0	0.0	(0.0)
olv38*	0.0	0.0	0.0	(0.0)
olv39*	0.0	0.0	0.0	(0.0)
olv40*	0.0	0.0	0.0	(0.0)
olv41*	0.0	0.0	0.0	(0.0)
olv42*	0.0	0.0	0.0	(0.0)
olv43*	0.0	0.0	0.0	(0.0)
olv44*	0.0	0.0	0.0	(0.0)
olv45*	0.0	0.0	0.0	(0.0)
olv46*	0.0	0.0	0.0	(0.0)
olv47*	0.0	0.0	0.0	(0.0)
olv48*	0.0	0.0	0.0	(0.0)
olv49*	0.0	0.0	0.0	(0.0)
olv50*	0.0	0.0	0.0	(0.0)
olv51*	0.0	0.0	0.0	(0.0)
olv52*	0.0	0.0	0.0	(0.0)
olv53*	0.0	0.0	0.0	(0.0)
olv54*	0.0	0.0	0.0	(0.0)
olv55*	0.0	0.0	0.0	(0.0)
olv56*	0.0	0.0	0.0	(0.0)
olv57*	0.0	0.0	0.0	(0.0)
olv58*	0.0	0.0	0.0	(0.0)
olv59*	0.0	0.0	0.0	(0.0)
olv60*	0.0	0.0	0.0	(0.0)
olv61*	0.0	0.0	0.0	(0.0)
olv62*	0.0	0.0	0.0	(0.0)
olv63*	0.0	0.0	0.0	(0.0)
olv64*	0.0	0.0	0.0	(0.0)
olv65*	0.0	0.0	0.0	(0.0)
olv66*	0.0	0.0	0.0	(0.0)
olv67*	0.0	0.0	0.0	(0.0)
olv68*	0.0	0.0	0.0	(0.0)
olv69*	0.0	0.0	0.0	(0.0)
olv70*	0.0	0.0	0.0	(0.0)
olv71*	0.0	0.0	0.0	(0.0)
olv72*	0.0	0.0	0.0	(0.0)
olv73*	0.0	0.0	0.0	(0.0)
olv74*	0.0	0.0	0.0	(0.0)
olv75*	0.0	0.0	0.0	(0.0)
olv76*	0.0	0.0	0.0	(0.0)
olv77*	0.0	0.0	0.0	(0.0)
olv78*	0.0	0.0	0.0	(0.0)
olv79*	0.0	0.0	0.0	(0.0)
olv80*	0.0	0.0	0.0	(0.0)
olv81*	0.0	0.0	0.0	(0.0)
olv82*	0.0	0.0	0.0	(0.0)
olv83*	0.0	0.0	0.0	(0.0)
olv84*	0.0	0.0	0.0	(0.0)
olv85*	0.0	0.0	0.0	(0.0)
olv86*	0.0	0.0	0.0	(0.0)
olv87*	0.0	0.0	0.0	(0.0)
olv88*	0.0	0.0	0.0	(0.0)
olv89*	0.0	0.0	0.0	(0.0)
olv90*	0.0	0.0	0.0	(0.0)
olv91*	0.0	0.0	0.0	(0.0)
olv92*	0.0	0.0	0.0	(0.0)
olv93*	0.0	0.0	0.0	(0.0)
olv94*	0.0	0.0	0.0	(0.0)
olv95*	0.0	0.0	0.0	(0.0)
olv96*	0.0	0.0	0.0	(0.0)
olv97*	0.0	0.0	0.0	(0.0)
olv98*	0.0	0.0	0.0	(0.0)
olv99*	0.0	0.0	0.0	(0.0)
olv100*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv4*	0.25	0.25	0.25	(0.0)
olv5*	0.5	0.5	0.5	(0.5)
olv6*	0.75	0.75	0.75	(1.0)
olv7*	0.25	0.25	0.25	(0.0)
olv8*	0.5	0.5	0.5	(0.5)
olv9*	0.75	0.75	0.75	(1.0)
olv10*	0.25	0.25	0.25	(0.0)
olv11*	0.5	0.5	0.5	(0.5)
olv12*	0.75	0.75	0.75	(1.0)
olv13*	0.25	0.25	0.25	(0.0)
olv14*	0.5	0.5	0.5	(0.5)
olv15*	0.75	0.75	0.75	(1.0)
olv16*	0.25	0.25	0.25	(0.0)
olv17*	0.5	0.5	0.5	(0.5)
olv18*	0.75	0.75	0.75	(1.0)
olv19*	0.25	0.25	0.25	(0.0)
olv20*	0.5	0.5	0.5	(0.5)
olv21*	0.75	0.75	0.75	(1.0)
olv22*	0.25	0.25	0.25	(0.0)
olv23*	0.5	0.5	0.5	(0.5)
olv24*	0.75	0.75	0.75	(1.0)
olv25*	0.25	0.25	0.25	(0.0)
olv26*	0.5	0.5	0.5	(0.5)
olv27*	0.75	0.75	0.75	(1.0)
olv28*	0.25	0.25	0.25	(0.0)
olv29*	0.5	0.5	0.5	(0.5)
olv30*	0.75	0.75	0.75	(1.0)
olv31*	0.25	0.25	0.25	(0.0)
olv32*	0.5	0.5	0.5	(0.5)
olv33*	0.75	0.75	0.75	(1.0)
olv34*	0.25	0.25	0.25	(0.0)
olv35*	0.5	0.5	0.5	(0.5)
olv36*	0.75	0.75	0.75	(1.0)
olv37*	0.25	0.25	0.25	(0.0)
olv38*	0.5	0.5	0.5	(0.5)
olv39*	0.75	0.75	0.75	(1.0)
olv40*	0.25	0.25	0.25	(0.0)
olv41*	0.5	0.5	0.5	(0.5)
olv42*	0.75	0.75	0.75	(1.0)
olv43*	0.25	0.25	0.25	(0.0)
olv44*	0.5	0.5	0.5	(0.5)
olv45*	0.75	0.75	0.75	(1.0)
olv46*	0.25	0.25	0.25	(0.0)
olv47*	0.5	0.5	0.5	(0.5)
olv48*	0.75	0.75	0.75	(1.0)
olv49*	0.25	0.25	0.25	(0.0)
olv50*	0.5	0.5	0.5	(0.5)
olv51*	0.75	0.75	0.75	(1.0)
olv52*	0.25	0.25	0.25	(0.0)
olv53*	0.5	0.5	0.5	(0.5)
olv54*	0.75	0.75	0.75	(1.0)
olv55*	0.25	0.25	0.25	(0.0)
olv56*	0.5	0.5	0.5	(0.5)
olv57*	0.75	0.75	0.75	(1.0)
olv58*	0.25	0.25	0.25	(0.0)
olv59*	0.5	0.5	0.5	(0.5)
olv60*	0.75	0.75	0.75	(1.0)
olv61*	0.25	0.25	0.25	(0.0)
olv62*	0.5	0.5	0.5	(0.5)
olv63*	0.75	0.75	0.75	(1.0)
olv64*	0.25	0.25	0.25	(0.0)
olv65*	0.5	0.5	0.5	(0.5)
olv66*	0.75	0.75	0.75	(1.0)
olv67*	0.25	0.25	0.25	(0.0)
olv68*	0.5	0.5	0.5	(0.5)
olv69*	0.75	0.75	0.75	(1.0)
olv70*	0.25	0.25	0.25	(0.0)
olv71*	0.5	0.5	0.5	(0.5)
olv72*	0.75	0.75	0.75	(1.0)
olv73*	0.25	0.25	0.25	(0.0)
olv74*	0.5	0.5	0.5	(0.5)
olv75*	0.75	0.75	0.75	(1.0)
olv76*	0.25	0.25	0.25	(0.0)
olv77*	0.5	0.5	0.5	(0.5)
olv78*	0.75	0.75	0.75	(1.0)
olv79*	0.25	0.25	0.25	(0.0)
olv80*	0.5	0.5	0.5	(0.5)
olv81*	0.75	0.75	0.75	(1.0)
olv82*	0.25	0.25	0.25	(0.0)
olv83*	0.5	0.5	0.5	(0.5)
olv84*	0.75	0.75	0.75	(1.0)
olv85*	0.25	0.25	0.25	(0.0)
olv86*	0.5	0.5	0.5	(0.5)
olv87*	0.75	0.75	0.75	(1.0)
olv88*	0.25	0.25	0.25	(0.0)
olv89*	0.5	0.5	0.5	(0.5)
olv90*	0.75	0.75	0.75	(1.0)
olv91*	0.25	0.25	0.25	(0.0)
olv92*	0.5	0.5	0.5	(0.5)
olv93*	0.75	0.75	0.75	(1.0)
olv94*	0.25	0.25	0.25	(0.0)
olv95*	0.5	0.5	0.5	(0.5)
olv96*	0.75	0.75	0.75	(1.0)
olv97*	0.25	0.25	0.25	(0.0)
olv98*	0.5	0.5	0.5	(0.5)
olv99*	0.75	0.75	0.75	(1.0)
olv100*	0.25	0.25	0.25	(0.0)

LAB* <i>TCHa</i>	87.5	19.34	272.0
relative CIELAB <i>lab*</i>			
<i>lab*lab</i>	0.875	0.009	-0.249
<i>lab*tch</i>	0.875	0.25	0.756
<i>lab*nch</i>	0.0	0.25	0.756
relative Natural Colour (NC)			
<i>lab*lrj</i>	0.875	0.001	-0.249
<i>lab*tce</i>	0.875	0.25	0.751
<i>lab*nCe</i>	0.0	0.25	b00r

Input: Colorimetric Natural Reflective System CNS18

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

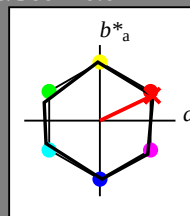
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 57 77 25

olv*Ma: 1.0 0.01 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

%Regularity

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

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

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 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*Lab 95.41 0.0 0.0
LAB*TCh 99.99 0.01

relative CIELAB lab*
lab*lab 1.0 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*tr 1.0 0.0 0.0
lab*tce 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.07 0.0 0.0
LAB*Lab 76.07 0.0 0.0
LAB*TCh 75.0 0.01

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.75 0.0 0.0
lab*tce 0.75 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.72 0.0 0.0
LAB*Lab 56.72 0.0 0.0
LAB*TCh 50.0 0.01

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.5 0.0 0.0
lab*tce 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 0.0 0.0
LAB*Lab 37.36 0.0 0.0
LAB*TCh 25.0 0.01

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.25 0.0 0.0
lab*tce 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*Lab 18.03 0.0 0.0
LAB*TCh 0.01 0.01

relative CIELAB lab*
lab*lab 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*tr 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 1.0$

relative Inform. Technology (IT)
olv3* 1.0 0.752 0.75 (1.0)
cmyn3* 0.0 0.248 0.25 (0.0)
olv4* 1.0 0.752 0.75 (1.0)
cmyn4* 0.0 0.248 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 85.73 17.37 8.28
LAB*Lab 85.73 17.37 8.28
LAB*TCh 97.5 19.24 25.48

relative CIELAB lab*
lab*lab 0.875 0.226 0.107
lab*tch 0.875 0.25 0.071
lab*nch 0.0 0.25 0.071
relative Natural Colour (NC)
lab*tr 0.875 0.25 0.0
lab*tce 0.875 0.25 0.0
lab*nce 0.0 0.25 0.09

relative Inform. Technology (IT)
olv3* 0.75 0.502 0.5 (1.0)
cmyn3* 0.25 0.498 0.5 (0.0)
olv4* 1.0 0.752 0.75 (1.0)
cmyn4* 0.0 0.248 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 66.38 17.37 8.28
LAB*Lab 66.38 17.37 8.28
LAB*TCh 62.5 19.24 25.48

relative CIELAB lab*
lab*lab 0.625 0.226 0.108
lab*tch 0.625 0.25 0.071
lab*nch 0.25 0.25 0.071
relative Natural Colour (NC)
lab*tr 0.625 0.25 0.0
lab*tce 0.625 0.25 0.0
lab*nce 0.25 0.25 0.09

relative Inform. Technology (IT)
olv3* 0.5 0.252 0.5 (1.0)
cmyn3* 0.5 0.748 0.75 (0.0)
olv4* 1.0 0.752 0.75 (1.0)
cmyn4* 0.0 0.248 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 47.03 17.37 8.28
LAB*Lab 47.03 17.37 8.28
LAB*TCh 37.5 19.24 25.48

relative CIELAB lab*
lab*lab 0.375 0.226 0.108
lab*tch 0.375 0.25 0.071
lab*nch 0.25 0.25 0.071
relative Natural Colour (NC)
lab*tr 0.375 0.25 0.0
lab*tce 0.375 0.25 0.0
lab*nce 0.25 0.25 0.09

relative Inform. Technology (IT)
olv3* 0.25 0.005 0.0 (1.0)
cmyn3* 0.5 0.995 1.0 (0.0)
olv4* 1.0 0.752 0.75 (1.0)
cmyn4* 0.0 0.248 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 27.36 17.37 8.28
LAB*Lab 27.36 17.37 8.28
LAB*TCh 25.01 19.24 25.48

relative CIELAB lab*
lab*lab 0.125 0.226 0.107
lab*tch 0.125 0.25 0.071
lab*nch 0.25 0.25 0.071
relative Natural Colour (NC)
lab*tr 0.125 0.25 0.0
lab*tce 0.125 0.25 0.0
lab*nce 0.25 0.25 0.09

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*Lab 18.03 0.0 0.0
LAB*TCh 0.01 0.01

relative CIELAB lab*
lab*lab 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*tr 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 0.50$

relative Inform. Technology (IT)
olv3* 1.0 0.505 0.5 (1.0)
cmyn3* 0.0 0.495 0.5 (0.0)
olv4* 1.0 0.505 0.5 (1.0)
cmyn4* 0.0 0.495 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 76.05 34.74 16.55
LAB*Lab 76.05 34.74 16.55
LAB*TCh 75.0 38.48 25.48

relative CIELAB lab*
lab*lab 0.75 0.451 0.215
lab*tch 0.75 0.5 0.071
lab*nch 0.0 0.5 0.071
relative Natural Colour (NC)
lab*tr 0.75 0.5 0.0
lab*tce 0.75 0.5 0.0
lab*nce 0.0 0.5 0.09

relative Inform. Technology (IT)
olv3* 0.75 0.257 0.5 (1.0)
cmyn3* 0.25 0.743 0.75 (0.0)
olv4* 1.0 0.257 0.25 (1.0)
cmyn4* 0.0 0.743 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 66.37 52.11 24.83
LAB*Lab 66.37 52.11 24.83
LAB*TCh 62.5 57.73 25.48

relative CIELAB lab*
lab*lab 0.625 0.677 0.323
lab*tch 0.625 0.75 0.071
lab*nch 0.0 0.75 0.071
relative Natural Colour (NC)
lab*tr 0.625 0.75 0.0
lab*tce 0.625 0.75 0.0
lab*nce 0.0 0.75 0.09

relative Inform. Technology (IT)
olv3* 0.5 0.009 0.0 (1.0)
cmyn3* 0.5 0.991 1.0 (0.0)
olv4* 1.0 0.009 0.0 (1.0)
cmyn4* 0.0 0.991 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.7 69.48 33.1
LAB*Lab 56.7 69.48 33.1
LAB*TCh 50.0 76.97 25.47

relative CIELAB lab*
lab*lab 0.5 0.903 0.43
lab*tch 0.5 1.0 0.071
lab*nch 0.0 1.0 0.071
relative Natural Colour (NC)
lab*tr 0.5 1.0 0.0
lab*tce 0.5 1.0 0.0
lab*nce 0.0 1.0 0.09

relative Inform. Technology (IT)
olv3* 0.25 0.005 0.0 (1.0)
cmyn3* 0.25 0.995 1.0 (0.0)
olv4* 1.0 0.257 0.25 (1.0)
cmyn4* 0.0 0.743 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 47.03 52.12 24.83
LAB*Lab 47.03 52.12 24.83
LAB*TCh 37.51 57.73 25.47

relative CIELAB lab*
lab*lab 0.375 0.677 0.322
lab*tch 0.375 0.75 0.071
lab*nch 0.25 0.75 0.071
relative Natural Colour (NC)
lab*tr 0.375 0.75 0.0
lab*tce 0.375 0.75 0.0
lab*nce 0.25 0.75 0.09

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*Lab 18.03 0.0 0.0
LAB*TCh 0.01 0.01

relative CIELAB lab*
lab*lab 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*tr 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 0.25$

relative Inform. Technology (IT)
olv3* 1.0 0.009 0.0 (1.0)
cmyn3* 0.0 0.991 1.0 (0.0)
olv4* 1.0 0.009 0.0 (1.0)
cmyn4* 0.0 0.991 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.7 69.48 33.1
LAB*Lab 56.7 69.48 33.1
LAB*TCh 50.0 76.97 25.47

relative CIELAB lab*
lab*lab 0.5 0.903 0.43
lab*tch 0.5 1.0 0.071
lab*nch 0.0 1.0 0.071
relative Natural Colour (NC)
lab*tr 0.5 1.0 0.0
lab*tce 0.5 1.0 0.0
lab*nce 0.0 1.0 0.09

relative Inform. Technology (IT)
olv3* 0.25 0.005 0.0 (1.0)
cmyn3* 0.25 0.995 1.0 (0.0)
olv4* 1.0 0.257 0.25 (1.0)
cmyn4* 0.0 0.743 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 47.03 52.12 24.83
LAB*Lab 47.03 52.12 24.83
LAB*TCh 37.51 57.73 25.47

relative CIELAB lab*
lab*lab 0.375 0.677 0.322
lab*tch 0.375 0.75 0.071
lab*nch 0.25 0.75 0.071
relative Natural Colour (NC)
lab*tr 0.375 0.75 0.0
lab*tce 0.375 0.75 0.0
lab*nce 0.25 0.75 0.09

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*Lab 18.03 0.0 0.0
LAB*TCh 0.01 0.01

relative CIELAB lab*
lab*lab 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*tr 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*Lab 18.03 0.0 0.0
LAB*TCh 0.01 0.01

relative CIELAB lab*
lab*lab 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*tr 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*Lab 18.03 0.0 0.0
LAB*TCh 0.01 0.01

relative CIELAB lab*
lab*lab 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*tr 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 0.00$

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 70.54 -0.53 -4.26
LAB*Lab 70.54 -0.53 -4.26
LAB*TCh 75.0 0.01

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.75 0.0 0.0
lab*tce 0.75 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 55.78 15.65 4.15
LAB*Lab 55.78 15.65 4.15
LAB*TCh 62.5 18.22 25.48

relative CIELAB lab*
lab*lab 0.5 0.25 0.226 0.108
lab*tch 0.5 0.25 0.071
lab*nch 0.25 0.25 0.071
relative Natural Colour (NC)
lab*tr 0.5 0.25 0.0
lab*tce 0.5 0.25 0.0
lab*nce 0.25 0.25 0.09

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 34.35 15.29 5.0
LAB*Lab 34.35 15.29 5.0
LAB*TCh 37.5 18.22 25.48

relative CIELAB lab*
lab*lab 0.25 0.226 0.108
lab*tch 0.25 0.25 0.071
lab*nch 0.25 0.25 0.071
relative Natural Colour (NC)
lab*tr 0.25 0.25 0.0
lab*tce 0.25 0.25 0.0
lab*nce 0.25 0.25 0.09

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*Lab 18.03 0.0 0.0
LAB*TCh 0.01 0.01

relative CIELAB lab*
lab*lab 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*tr 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*Lab 18.03 0.0 0.0
LAB*TCh 0.01 0.01

relative CIELAB lab*
lab*lab 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*tr 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 0.00$

Output: Colorimetric Printer Reflective System FRS06

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

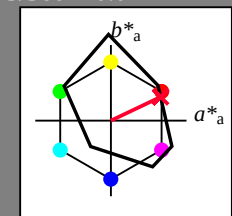
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 33 73 25

olv*Ma: 1.0 0.0 0.19

triangle lightness t^*



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

... ..

_____ L _____ V

Input: Colorimetric Natural Reflective System CNS18

for hue $h^* = lab^*h = 272/360 = 0.755$

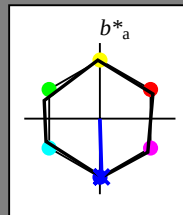
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 57 77 272

olv*Ma: 0.0 0.0 1.0

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

%Regularity

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

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

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 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*ABa 95.41 0.0 0.0
LAB*TCha 99.99 0.01

relative Inform. Technology (IT)
olv3* 0.75 0.75 1.0 (1.0)
cmyn3* 0.25 0.249 0.0 (0.0)
olv4* 0.75 0.75 1.0 (1.0)
cmyn4* 0.25 0.249 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 85.73 0.58 -19.26
LAB*ABa 85.73 0.58 -19.26
LAB*TCha 97.5 19.28 271.74

relative Inform. Technology (IT)
olv3* 0.5 0.502 1.0 (1.0)
cmyn3* 0.5 0.498 0.0 (0.0)
olv4* 0.5 0.503 1.0 (1.0)
cmyn4* 0.5 0.497 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.05 1.17 -38.54
LAB*ABa 76.05 1.17 -38.54
LAB*TCha 75.0 38.57 271.74

relative Inform. Technology (IT)
olv3* 0.25 0.254 1.0 (1.0)
cmyn3* 0.25 0.246 0.0 (0.0)
olv4* 0.25 0.254 1.0 (1.0)
cmyn4* 0.25 0.246 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 66.37 1.75 -57.82
LAB*ABa 66.37 1.75 -57.82
LAB*TCha 62.5 57.86 271.74

relative Inform. Technology (IT)
olv3* 0.0 0.004 0.75 (1.0)
cmyn3* 0.75 0.748 0.25 (0.0)
olv4* 0.0 0.005 1.0 (1.0)
cmyn4* 0.75 0.746 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 1.17 -38.55
LAB*ABa 56.71 1.17 -38.55
LAB*TCha 50.0 38.58 271.74

relative Inform. Technology (IT)
olv3* 0.0 0.004 0.75 (1.0)
cmyn3* 0.75 0.748 0.25 (0.0)
olv4* 0.0 0.005 1.0 (1.0)
cmyn4* 0.75 0.746 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 1.17 -38.55
LAB*ABa 56.71 1.17 -38.55
LAB*TCha 50.0 38.58 271.74

relative Inform. Technology (IT)
olv3* 0.0 0.004 0.75 (1.0)
cmyn3* 0.75 0.748 0.25 (0.0)
olv4* 0.0 0.005 1.0 (1.0)
cmyn4* 0.75 0.746 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 1.17 -38.55
LAB*ABa 56.71 1.17 -38.55
LAB*TCha 50.0 38.58 271.74

relative Inform. Technology (IT)
olv3* 0.0 0.004 0.75 (1.0)
cmyn3* 0.75 0.748 0.25 (0.0)
olv4* 0.0 0.005 1.0 (1.0)
cmyn4* 0.75 0.746 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 1.17 -38.55
LAB*ABa 56.71 1.17 -38.55
LAB*TCha 50.0 38.58 271.74

relative Inform. Technology (IT)
olv3* 0.0 0.004 0.75 (1.0)
cmyn3* 0.75 0.748 0.25 (0.0)
olv4* 0.0 0.005 1.0 (1.0)
cmyn4* 0.75 0.746 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 1.17 -38.55
LAB*ABa 56.71 1.17 -38.55
LAB*TCha 50.0 38.58 271.74

relative Inform. Technology (IT)
olv3* 0.0 0.004 0.75 (1.0)
cmyn3* 0.75 0.748 0.25 (0.0)
olv4* 0.0 0.005 1.0 (1.0)
cmyn4* 0.75 0.746 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 1.17 -38.55
LAB*ABa 56.71 1.17 -38.55
LAB*TCha 50.0 38.58 271.74

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 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*ABa 95.41 0.0 0.0
LAB*TCha 99.99 0.01

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
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VE35-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

BAM-test chart VE35; Colorimetric systems CNS18 & FRS06

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

input: olv* setrgbcolor

output: no change compared to input