

L	V
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Input: Colorimetric Natural Reflective System CNS18

for hue $h^* = lab^*h = 92/360 = 0.256$

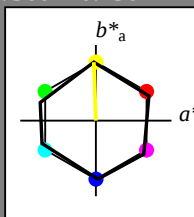
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 57 77 92

olv*Ma: 1.0 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
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)
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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*	1.0	1.0	0.75	(1.0)
olv4*	0.0	0.0	0.25	(0.0)
olv5*	0.0	0.0	0.75	(0.0)
olv6*	0.0	0.0	0.25	(0.0)
olv7*	0.0	0.0	0.75	(0.0)
olv8*	0.0	0.0	0.25	(0.0)
olv9*	0.0	0.0	0.75	(0.0)
olv10*	0.0	0.0	0.25	(0.0)
olv11*	0.0	0.0	0.75	(0.0)
olv12*	0.0	0.0	0.25	(0.0)
olv13*	0.0	0.0	0.75	(0.0)
olv14*	0.0	0.0	0.25	(0.0)
olv15*	0.0	0.0	0.75	(0.0)
olv16*	0.0	0.0	0.25	(0.0)
olv17*	0.0	0.0	0.75	(0.0)
olv18*	0.0	0.0	0.25	(0.0)
olv19*	0.0	0.0	0.75	(0.0)
olv20*	0.0	0.0	0.25	(0.0)
olv21*	0.0	0.0	0.75	(0.0)
olv22*	0.0	0.0	0.25	(0.0)
olv23*	0.0	0.0	0.75	(0.0)
olv24*	0.0	0.0	0.25	(0.0)
olv25*	0.0	0.0	0.75	(0.0)
olv26*	0.0	0.0	0.25	(0.0)
olv27*	0.0	0.0	0.75	(0.0)
olv28*	0.0	0.0	0.25	(0.0)
olv29*	0.0	0.0	0.75	(0.0)
olv30*	0.0	0.0	0.25	(0.0)
olv31*	0.0	0.0	0.75	(0.0)
olv32*	0.0	0.0	0.25	(0.0)
olv33*	0.0	0.0	0.75	(0.0)
olv34*	0.0	0.0	0.25	(0.0)
olv35*	0.0	0.0	0.75	(0.0)
olv36*	0.0	0.0	0.25	(0.0)
olv37*	0.0	0.0	0.75	(0.0)
olv38*	0.0	0.0	0.25	(0.0)
olv39*	0.0	0.0	0.75	(0.0)
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olv43*	0.0	0.0	0.75	(0.0)
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olv51*	0.0	0.0	0.75	(0.0)
olv52*	0.0	0.0	0.25	(0.0)
olv53*	0.0	0.0	0.75	(0.0)
olv54*	0.0	0.0	0.25	(0.0)
olv55*	0.0	0.0	0.75	(0.0)
olv56*	0.0	0.0	0.25	(0.0)
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olv92*	0.0	0.0	0.25	(0.0)
olv93*	0.0	0.0	0.75	(0.0)
olv94*	0.0	0.0	0.25	(0.0)
olv95*	0.0	0.0	0.75	(0.0)
olv96*	0.0	0.0	0.25	(0.0)
olv97*	0.0	0.0	0.75	(0.0)
olv98*	0.0	0.0	0.25	(0.0)
olv99*	0.0	0.0	0.75	(0.0)
olv100*	0.0	0.0	0.25	(0.0)

relative Inform. Technology (IT)

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olv6*	0.0	0.0	0.5	(0.0)
olv7*	0.0	0.0	0.5	(0.0)
olv8*	0.0	0.0	0.5	(0.0)
olv9*	0.0	0.0	0.5	(0.0)
olv10*	0.0	0.0	0.5	(0.0)
olv11*	0.0	0.0	0.5	(0.0)
olv12*	0.0	0.0	0.5	(0.0)
olv13*	0.0	0.0	0.5	(0.0)
olv14*	0.0	0.0	0.5	(0.0)
olv15*	0.0	0.0	0.5	(0.0)
olv16*	0.0	0.0	0.5	(0.0)
olv17*	0.0	0.0	0.5	(0.0)
olv18*	0.0	0.0	0.5	(0.0)
olv19*	0.0	0.0	0.5	(0.0)
olv20*	0.0	0.0	0.5	(0.0)
olv21*	0.0	0.0	0.5	(0.0)
olv22*	0.0	0.0	0.5	(0.0)
olv23*	0.0	0.0	0.5	(0.0)
olv24*	0.0	0.0	0.5	(0.0)
olv25*	0.0	0.0	0.5	(0.0)
olv26*	0.0	0.0	0.5	(0.0)
olv27*	0.0	0.0	0.5	(0.0)
olv28*	0.0	0.0	0.5	(0.0)
olv29*	0.0	0.0	0.5	(0.0)
olv30*	0.0	0.0	0.5	(0.0)
olv31*	0.0	0.0	0.5	(0.0)
olv32*	0.0	0.0	0.5	(0.0)
olv33*	0.0	0.0	0.5	(0.0)
olv34*	0.0	0.0	0.5	(0.0)
olv35*	0.0	0.0	0.5	(0.0)
olv36*	0.0	0.0	0.5	(0.0)
olv37*	0.0	0.0	0.5	(0.0)
olv38*	0.0	0.0	0.5	(0.0)
olv39*	0.0	0.0	0.5	(0.0)
olv40*	0.0	0.0	0.5	(0.0)
olv41*	0.0	0.0	0.5	(0.0)
olv42*	0.0	0.0	0.5	(0.0)
olv43*	0.0	0.0	0.5	(0.0)
olv44*	0.0	0.0	0.5	(0.0)
olv45*	0.0	0.0	0.5	(0.0)
olv46*	0.0	0.0	0.5	(0.0)
olv47*	0.0	0.0	0.5	(0.0)

Input: Colorimetric Natural Reflective System CNS18

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

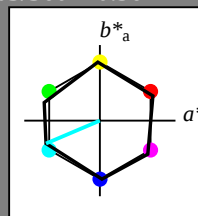
lab^*tch and lab^*nch

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

relative Inform. Technology (IT)				
olvi3*	0.5	1.0	1.0	(1.0)
cmyn3*	0.5	0.0	0.0	(0.0)
olvi4*	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*LAB _a	76.05	-35.61	-15.11	

Input: Colorimetric Natural Reflective System CNS18

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

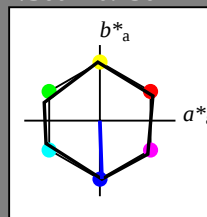
lab^*tch and lab^*nch

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)
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 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*trj	1.0 0.0 0.0
lab*trj	1.0 0.0 0.0
lab*trj	1.0 0.0 0.0
lab*trj	1.0 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*	0.0 0.0 0.0 (0.0)
olv6*	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*Lab	76.07 0.0 0.0
relative CIELAB lab*	
lab*lab	0.875 0.009 -0.249
lab*lab	0.875 0.009 -0.249
lab*lab	0.875 0.009 -0.249
lab*lab	0.875 0.009 -0.249
relative Natural Colour (NC)	
lab*trj	0.875 0.009 -0.249
lab*trj	0.875 0.009 -0.249
lab*trj	0.875 0.009 -0.249
lab*trj	0.875 0.009 -0.249

relative Inform. Technology (IT)	
olv3*	0.5 0.5 0.5 (1.0)
olv4*	0.25 0.25 0.25 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*Lab	66.37 0.0 0.0
LAB*Lab	66.37 0.0 0.0
LAB*Lab	66.37 0.0 0.0
relative CIELAB lab*	
lab*lab	0.5 0.0017 -0.499
lab*lab	0.5 0.0017 -0.499
lab*lab	0.5 0.0017 -0.499
lab*lab	0.5 0.0017 -0.499
relative Natural Colour (NC)	
lab*trj	0.5 0.0017 -0.499
lab*trj	0.5 0.0017 -0.499
lab*trj	0.5 0.0017 -0.499
lab*trj	0.5 0.0017 -0.499

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.25 (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)
standard and adapted CIELAB	
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
relative CIELAB lab*	
lab*lab	0.625 0.003 -0.749
lab*lab	0.625 0.003 -0.749
lab*lab	0.625 0.003 -0.749
lab*lab	0.625 0.003 -0.749
relative Natural Colour (NC)	
lab*trj	0.625 0.003 -0.749
lab*trj	0.625 0.003 -0.749
lab*trj	0.625 0.003 -0.749
lab*trj	0.625 0.003 -0.749

relative Inform. Technology (IT)	
olv3*	0.0 0.0 0.0 (1.0)
olv4*	0.75 0.75 0.75 (1.0)
olv5*	0.0 0.0 0.0 (0.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
relative CIELAB lab*	
lab*lab	0.5 0.0017 -0.499
lab*lab	0.5 0.0017 -0.499
lab*lab	0.5 0.0017 -0.499
lab*lab	0.5 0.0017 -0.499
relative Natural Colour (NC)	
lab*trj	0.5 0.0017 -0.499
lab*trj	0.5 0.0017 -0.499
lab*trj	0.5 0.0017 -0.499
lab*trj	0.5 0.0017 -0.499

relative Inform. Technology (IT)	
olv3*	0.0 0.0 0.0 (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)
standard and adapted CIELAB	
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
relative CIELAB lab*	
lab*lab	0.5 0.0017 -0.499
lab*lab	0.5 0.0017 -0.499
lab*lab	0.5 0.0017 -0.499
lab*lab	0.5 0.0017 -0.499
relative Natural Colour (NC)	
lab*trj	0.5 0.0017 -0.499
lab*trj	0.5 0.0017 -0.499
lab*trj	0.5 0.0017 -0.499
lab*trj	0.5 0.0017 -0.499

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.25 (1.0)
olv4*	0.75 0.75 0.75 (1.0)
olv5*	0.0 0.0 0.0 (0.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
relative CIELAB lab*	
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
relative Natural Colour (NC)	
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748

relative Inform. Technology (IT)	
olv3*	0.0 0.0 0.0 (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)
standard and adapted CIELAB	
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
relative CIELAB lab*	
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
relative Natural Colour (NC)	
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748

relative Inform. Technology (IT)	
olv3*	0.0 0.0 0.0 (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)
standard and adapted CIELAB	
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
relative CIELAB lab*	
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
relative Natural Colour (NC)	
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748

relative Inform. Technology (IT)	
olv3*	0.0 0.0 0.0 (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)
standard and adapted CIELAB	
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
relative CIELAB lab*	
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
relative Natural Colour (NC)	
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748

relative Inform. Technology (IT)	
olv3*	0.0 0.0 0.0 (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)
standard and adapted CIELAB	
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
relative CIELAB lab*	
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
relative Natural Colour (NC)	
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.25 (1.0)
olv4*	0.75 0.75 0.75 (1.0)
olv5*	0.0 0.0 0.0 (0.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
relative CIELAB lab*	
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
relative Natural Colour (NC)	
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748

relative Inform. Technology (IT)	
olv3*	0.0 0.0 0.0 (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)
standard and adapted CIELAB	
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
relative CIELAB lab*	
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
relative Natural Colour (NC)	
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748

relative Inform. Technology (IT)	
olv3*	0.0 0.0 0.0 (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)
standard and adapted CIELAB	
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
relative CIELAB lab*	
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
relative Natural Colour (NC)	
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748

relative Inform. Technology (IT)	
olv3*	0.0 0.0 0.0 (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)
standard and adapted CIELAB	
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
relative CIELAB lab*	
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
relative Natural Colour (NC)	
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748

relative Inform. Technology (IT)	
olv3*	0.0 0.0 0.0 (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)
standard and adapted CIELAB	
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
LAB*Lab	56.71 1.35 -38.67
relative CIELAB lab*	
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
lab*lab	0.375 0.026 -0.748
relative Natural Colour (NC)	
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748
lab*trj	0.375 0.026 -0.748

VE650-7, 5 step scales for constant CIELAB hue 272/360 = 0.756 (left)

5 step scales for constant CIELAB hue 272/360 = 0.756 (right)

BAM-test chart VE65; Colorimetric systems CNS18 & TLS18

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

input: olv* setrgbcolor

output: olv*' (TRI9) setrgbcolor

See for similar files: <http://www.ps.bam.de/VE65/>
Technical information: <http://www.ps.bam.de> Version 2.1, io=1,1, CIEXYZ

BAM registration: 20060101-VE65/10L/L65E05FP.PS/.PDF
application for evaluation and measurement of printer or monitor systems, Yr=2.5, XYZ
[VE65] Form 6/10, Serie: 1/1, Page: 6 Page count: 1

Input: Colorimetric Natural Reflective System CNS18

for hue $h^* = lab^*h = 325/360 = 0.903$

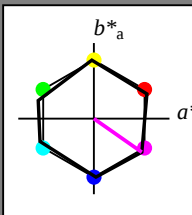
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 57 77 325

olv*Ma: 1.0 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*	0.0	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)

LAB*TCHa	87.5	19.34	325.0
relative CIELAB lab*			
lab*lab	0.875	0.205	-0.142
lab*tch	0.875	0.25	0.903
lab*ncch	0.0	0.25	0.903
relative Natural Colour (NC)			
lab*lrj	0.875	0.168	-0.184
lab*tce	0.875	0.25	0.867
lab*nce	0.0	0.25	0.867

Input: Colorimetric Natural Reflective System CNS18

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

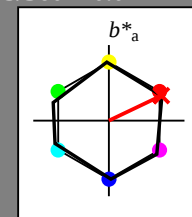
lab^*tch and lab^*nch

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)
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)
standard and adapted CIELAB	
LAB*LAB	95.41 0.0 0.0
LAB*LABa	95.41 0.0 0.0
LAB*LABb	99.99 0.01 -
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)	
olv3*	1.0 0.752 0.75 (1.0)
olv4*	0.0 0.248 0.25 (0.0)
olv5*	1.0 0.752 0.75 (1.0)
olv6*	0.0 0.248 0.25 (0.0)
standard and adapted CIELAB	
LAB*LAB	85.73 17.37 8.28
LAB*LABa	85.73 17.37 8.28
LAB*LABb	87.5 19.24 25.48
relative CIELAB lab*	
lab*lab	0.875 0.226 0.107
lab*lab	0.875 0.226 0.107
lab*lab	0.875 0.226 0.107
lab*lab	0.875 0.226 0.107
relative Natural Colour (NC)	
lab*lab	0.875 0.226 0.107
lab*lab	0.875 0.226 0.107
lab*lab	0.875 0.226 0.107
lab*lab	0.875 0.226 0.107

relative Inform. Technology (IT)	
olv3*	1.0 0.505 0.5 (1.0)
olv4*	0.0 0.495 0.5 (0.0)
olv5*	1.0 0.505 0.5 (1.0)
olv6*	0.0 0.495 0.5 (0.0)
standard and adapted CIELAB	
LAB*LAB	76.05 34.74 16.55
LAB*LABa	76.05 34.74 16.55
LAB*LABb	75.0 38.48 25.48
relative CIELAB lab*	
lab*lab	0.75 0.451 0.215
lab*lab	0.75 0.451 0.215
lab*lab	0.75 0.451 0.215
lab*lab	0.75 0.451 0.215
relative Natural Colour (NC)	
lab*lab	0.75 0.451 0.215
lab*lab	0.75 0.451 0.215
lab*lab	0.75 0.451 0.215
lab*lab	0.75 0.451 0.215

relative Inform. Technology (IT)	
olv3*	1.0 0.257 0.25 (1.0)
olv4*	0.0 0.743 0.75 (0.0)
olv5*	1.0 0.257 0.25 (1.0)
olv6*	0.0 0.743 0.75 (0.0)
standard and adapted CIELAB	
LAB*LAB	66.37 52.11 24.83
LAB*LABa	66.37 52.11 24.83
LAB*LABb	62.5 57.73 25.48
relative CIELAB lab*	
lab*lab	0.625 0.677 0.323
lab*lab	0.625 0.677 0.323
lab*lab	0.625 0.677 0.323
lab*lab	0.625 0.677 0.323
relative Natural Colour (NC)	
lab*lab	0.625 0.677 0.323
lab*lab	0.625 0.677 0.323
lab*lab	0.625 0.677 0.323
lab*lab	0.625 0.677 0.323

relative Inform. Technology (IT)	
olv3*	1.0 0.009 0.0 (1.0)
olv4*	0.0 0.991 1.0 (0.0)
olv5*	1.0 0.009 0.0 (1.0)
olv6*	0.0 0.991 1.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	56.7 69.48 33.1
LAB*LABa	56.7 69.48 33.1
LAB*LABb	50.0 76.97 25.47
relative CIELAB lab*	
lab*lab	0.5 0.903 0.43
lab*lab	0.5 0.903 0.43
lab*lab	0.5 0.903 0.43
lab*lab	0.5 0.903 0.43
relative Natural Colour (NC)	
lab*lab	0.5 0.903 0.43
lab*lab	0.5 0.903 0.43
lab*lab	0.5 0.903 0.43
lab*lab	0.5 0.903 0.43

relative Inform. Technology (IT)	
olv3*	0.5 0.5 0.5 (1.0)
olv4*	1.0 1.0 1.0 (1.0)
olv5*	0.5 0.5 0.5 (1.0)
olv6*	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*LABb	50.0 0.0 0.0
relative CIELAB lab*	
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
relative Natural Colour (NC)	
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0

relative Inform. Technology (IT)	
olv3*	0.5 0.5 0.5 (1.0)
olv4*	1.0 1.0 1.0 (1.0)
olv5*	0.5 0.5 0.5 (1.0)
olv6*	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*LABb	50.0 0.0 0.0
relative CIELAB lab*	
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
relative Natural Colour (NC)	
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0

relative Inform. Technology (IT)	
olv3*	0.5 0.5 0.5 (1.0)
olv4*	1.0 1.0 1.0 (1.0)
olv5*	0.5 0.5 0.5 (1.0)
olv6*	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*LABb	50.0 0.0 0.0
relative CIELAB lab*	
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
relative Natural Colour (NC)	
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0

relative Inform. Technology (IT)	
olv3*	0.5 0.5 0.5 (1.0)
olv4*	1.0 1.0 1.0 (1.0)
olv5*	0.5 0.5 0.5 (1.0)
olv6*	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*LABb	50.0 0.0 0.0
relative CIELAB lab*	
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
relative Natural Colour (NC)	
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0

relative Inform. Technology (IT)	
olv3*	0.5 0.5 0.5 (1.0)
olv4*	1.0 1.0 1.0 (1.0)
olv5*	0.5 0.5 0.5 (1.0)
olv6*	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*LABb	50.0 0.0 0.0
relative CIELAB lab*	
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
relative Natural Colour (NC)	
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0

relative Inform. Technology (IT)	
olv3*	0.5 0.5 0.5 (1.0)
olv4*	1.0 1.0 1.0 (1.0)
olv5*	0.5 0.5 0.5 (1.0)
olv6*	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*LABb	50.0 0.0 0.0
relative CIELAB lab*	
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
relative Natural Colour (NC)	
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0
lab*lab	0.5 0.0 0.0

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.25 (1.0)
olv4*	0.75 0.75 0.75 (0.0)
olv5*	1.0 1.0 1.0 (1.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	37.37 37.37 0.0
LAB*LABa	37.37 37.37 0.0
LAB*LABb	25.0 0.01 -
relative CIELAB lab*	
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
relative Natural Colour (NC)	
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.25 (1.0)
olv4*	0.75 0.75 0.75 (0.0)
olv5*	1.0 1.0 1.0 (1.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	37.37 37.37 0.0
LAB*LABa	37.37 37.37 0.0
LAB*LABb	25.0 0.01 -
relative CIELAB lab*	
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
relative Natural Colour (NC)	
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.25 (1.0)
olv4*	0.75 0.75 0.75 (0.0)
olv5*	1.0 1.0 1.0 (1.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	37.37 37.37 0.0
LAB*LABa	37.37 37.37 0.0
LAB*LABb	25.0 0.01 -
relative CIELAB lab*	
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
relative Natural Colour (NC)	
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.25 (1.0)
olv4*	0.75 0.75 0.75 (0.0)
olv5*	1.0 1.0 1.0 (1.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	37.37 37.37 0.0
LAB*LABa	37.37 37.37 0.0
LAB*LABb	25.0 0.01 -
relative CIELAB lab*	
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
relative Natural Colour (NC)	
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.25 (1.0)
olv4*	0.75 0.75 0.75 (0.0)
olv5*	1.0 1.0 1.0 (1.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	37.37 37.37 0.0
LAB*LABa	37.37 37.37 0.0
LAB*LABb	25.0 0.01 -
relative CIELAB lab*	
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
relative Natural Colour (NC)	
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.25 (1.0)
olv4*	0.75 0.75 0.75 (0.0)
olv5*	1.0 1.0 1.0 (1.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	37.37 37.37 0.0
LAB*LABa	37.37 37.37 0.0
LAB*LABb	25.0 0.01 -
relative CIELAB lab*	
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
relative Natural Colour (NC)	
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.25 (1.0)
olv4*	0.75 0.75 0.75 (0.0)
olv5*	1.0 1.0 1.0 (1.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	37.37 37.37 0.0
LAB*LABa	37.37 37.37 0.0
LAB*LABb	25.0 0.01 -
relative CIELAB lab*	
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
relative Natural Colour (NC)	
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.25 (1.0)
olv4*	0.75 0.75 0.75 (0.0)
olv5*	1.0 1.0 1.0 (1.0)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	37.37 37.37 0.0
LAB*LABa	37.37 37.37 0.0
LAB*LABb	25.0 0.01 -
relative CIELAB lab*	
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
relative Natural Colour (NC)	
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0
lab*lab	0.25 0.0 0.0

Input: Colorimetric Natural Reflective System CNS18

for hue $h^* = lab^*h = 92/360 = 0.256$

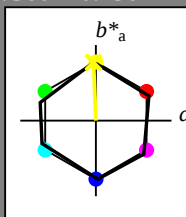
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 57 77 92

olv*Ma: 0.99 1.0 0.0

triangle lightness t^*



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*LABb 95.41 0.0 0.0
LAB*LABc 95.41 0.0 0.0

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*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 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*LABa 76.07 0.0 0.0
LAB*LABb 76.07 0.0 0.0
LAB*LABc 76.07 0.0 0.0

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*lab 0.75 0.0 0.0
lab*tch 0.75 0.0 0.0
lab*nch 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 56.72 0.0 0.0
LAB*LABa 56.72 0.0 0.0
LAB*LABb 56.72 0.0 0.0
LAB*LABc 56.72 0.0 0.0

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*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 0.0
lab*nch 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 37.37 0.0 0.0
LAB*LABa 37.37 0.0 0.0
LAB*LABb 37.37 0.0 0.0
LAB*LABc 37.37 0.0 0.0

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*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 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*LABa 18.03 0.0 0.0
LAB*LABb 18.03 0.0 0.0
LAB*LABc 18.03 0.0 0.0

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*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 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 0.01 0.01 0.01
LAB*LABa 0.01 0.01 0.01
LAB*LABb 0.01 0.01 0.01
LAB*LABc 0.01 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*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 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* 0.999 1.0 0.5 (1.0)
cmyn3* 0.001 0.0 0.5 (0.0)
olv4* 0.999 1.0 0.5 (1.0)
cmyn4* 0.001 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*LABb 95.41 0.0 0.0
LAB*LABc 95.41 0.0 0.0

relative CIELAB lab*
lab*lab 0.999 0.5 0.5 (1.0)
lab*tch 0.999 0.5 0.5 (1.0)
lab*nch 0.0 0.5 0.5 (0.0)
relative Natural Colour (NC)
lab*lab 0.999 0.5 0.5 (1.0)
lab*tch 0.999 0.5 0.5 (1.0)
lab*nch 0.0 0.5 0.5 (0.0)

relative Inform. Technology (IT)
olv3* 0.749 0.75 0.5 (1.0)
cmyn3* 0.251 0.25 0.5 (0.0)
olv4* 0.999 1.0 0.5 (1.0)
cmyn4* 0.001 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 76.07 0.0 0.0
LAB*LABa 76.07 0.0 0.0
LAB*LABb 76.07 0.0 0.0
LAB*LABc 76.07 0.0 0.0

relative CIELAB lab*
lab*lab 0.749 0.5 0.5 (1.0)
lab*tch 0.749 0.5 0.5 (1.0)
lab*nch 0.0 0.5 0.5 (0.0)
relative Natural Colour (NC)
lab*lab 0.749 0.5 0.5 (1.0)
lab*tch 0.749 0.5 0.5 (1.0)
lab*nch 0.0 0.5 0.5 (0.0)

relative Inform. Technology (IT)
olv3* 0.599 1.0 0.0 (1.0)
cmyn3* 0.401 0.0 0.0 (0.0)
olv4* 0.999 1.0 0.0 (1.0)
cmyn4* 0.001 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -1.55 38.52
LAB*LABa 56.71 -1.55 38.52
LAB*LABb 56.71 -1.55 38.52
LAB*LABc 56.71 -1.55 38.52

relative CIELAB lab*
lab*lab 0.599 0.0 0.0 (1.0)
lab*tch 0.599 0.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.599 0.0 0.0 (1.0)
lab*tch 0.599 0.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)
olv3* 0.499 0.5 0.0 (1.0)
cmyn3* 0.501 0.5 0.0 (0.0)
olv4* 0.999 1.0 0.0 (1.0)
cmyn4* 0.001 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.03 -0.77 19.26
LAB*LABa 47.03 -0.77 19.26
LAB*LABb 47.03 -0.77 19.26
LAB*LABc 47.03 -0.77 19.26

relative CIELAB lab*
lab*lab 0.499 0.5 0.0 (1.0)
lab*tch 0.499 0.5 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.499 0.5 0.0 (1.0)
lab*tch 0.499 0.5 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)
olv3* 0.399 0.25 0.0 (1.0)
cmyn3* 0.601 0.25 0.0 (0.0)
olv4* 0.999 1.0 0.0 (1.0)
cmyn4* 0.001 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.37 38.51
LAB*LABa 37.36 -0.37 38.51
LAB*LABb 37.36 -0.37 38.51
LAB*LABc 37.36 -0.37 38.51

relative CIELAB lab*
lab*lab 0.399 0.25 0.0 (1.0)
lab*tch 0.399 0.25 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.399 0.25 0.0 (1.0)
lab*tch 0.399 0.25 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)
olv3* 0.299 1.0 0.0 (1.0)
cmyn3* 0.701 0.0 0.0 (0.0)
olv4* 0.999 1.0 0.0 (1.0)
cmyn4* 0.001 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 27.13 -0.19 0.49
LAB*LABa 27.13 -0.19 0.49
LAB*LABb 27.13 -0.19 0.49
LAB*LABc 27.13 -0.19 0.49

relative CIELAB lab*
lab*lab 0.299 1.0 0.0 (1.0)
lab*tch 0.299 1.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.299 1.0 0.0 (1.0)
lab*tch 0.299 1.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)
olv3* 0.199 0.75 0.0 (1.0)
cmyn3* 0.801 0.25 0.0 (0.0)
olv4* 0.999 1.0 0.0 (1.0)
cmyn4* 0.001 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.12 0.00 0.00
LAB*LABa 18.12 0.00 0.00
LAB*LABb 18.12 0.00 0.00
LAB*LABc 18.12 0.00 0.00

relative CIELAB lab*
lab*lab 0.199 0.75 0.0 (1.0)
lab*tch 0.199 0.75 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.199 0.75 0.0 (1.0)
lab*tch 0.199 0.75 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)
olv3* 0.099 0.5 0.0 (1.0)
cmyn3* 0.901 0.5 0.0 (0.0)
olv4* 0.999 1.0 0.0 (1.0)
cmyn4* 0.001 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 9.01 0.00 0.00
LAB*LABa 9.01 0.00 0.00
LAB*LABb 9.01 0.00 0.00
LAB*LABc 9.01 0.00 0.00

relative CIELAB lab*
lab*lab 0.099 0.5 0.0 (1.0)
lab*tch 0.099 0.5 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.099 0.5 0.0 (1.0)
lab*tch 0.099 0.5 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)
olv3* 0.049 0.25 0.0 (1.0)
cmyn3* 0.951 0.25 0.0 (0.0)
olv4* 0.999 1.0 0.0 (1.0)
cmyn4* 0.001 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 4.51 0.00 0.00
LAB*LABa 4.51 0.00 0.00
LAB*LABb 4.51 0.00 0.00
LAB*LABc 4.51 0.00 0.00

relative CIELAB lab*
lab*lab 0.049 0.25 0.0 (1.0)
lab*tch 0.049 0.25 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.049 0.25 0.0 (1.0)
lab*tch 0.049 0.25 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)
olv3* 0.024 0.125 0.0 (1.0)
cmyn3* 0.976 0.125 0.0 (0.0)
olv4* 0.999 1.0 0.0 (1.0)
cmyn4* 0.001 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 2.26 0.00 0.00
LAB*LABa 2.26 0.00 0.00
LAB*LABb 2.26 0.00 0.00
LAB*LABc 2.26 0.00 0.00

relative CIELAB lab*
lab*lab 0.024 0.125 0.0 (1.0)
lab*tch 0.024 0.125 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.024 0.125 0.0 (1.0)
lab*tch 0.024 0.125 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)
olv3* 0.012 0.062 0.0 (1.0)
cmyn3* 0.988 0.062 0.0 (0.0)
olv4* 0.999 1.0 0.0 (1.0)
cmyn4* 0.001 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.63 0.00 0.00
LAB*LABa 0.63 0.00 0.00
LAB*LABb 0.63 0.00 0.00
LAB*LABc 0.63 0.00 0.00

relative CIELAB lab*
lab*lab 0.012 0.062 0.0 (1.0)
lab*tch 0.012 0.062 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.012 0.062 0.0 (1.0)
lab*tch 0.012 0.062 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)
olv3* 0.006 0.0 0.0 (1.0)
cmyn3* 0.994 0.0 0.0 (0.0)
olv4* 0.999 1.0 0.0 (1.0)
cmyn4* 0.001 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.31 0.00 0.00
LAB*LABa 0.31 0.00 0.00
LAB*LABb 0.31 0.00 0.00
LAB*LABc 0.31 0.00 0.00

relative CIELAB lab*
lab*lab 0.006 0.0 0.0 (1.0)
lab*tch 0.006 0.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.006 0.0 0.0 (1.0)
lab*tch 0.006 0.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)
olv3* 0.003 0.0 0.0 (1.0)
cmyn3* 0.997 0.0 0.0 (0.0)
olv4* 0.999 1.0 0.0 (1.0)
cmyn4* 0.001 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.16 0.00 0.00
LAB*LABa 0.16 0.00 0.00
LAB*LABb 0.16 0.00 0.00
LAB*LABc 0.16 0.00 0.00

relative CIELAB lab*
lab*lab 0.003 0.0 0.0 (1.0)
lab*tch 0.003 0.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.003 0.0 0.0 (1.0)
lab*tch 0.003 0.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)
olv3* 0.001 0.0 0.0 (1.0)
cmyn3* 0.999 0.0 0.0 (0.0)
olv4* 0.999 1.0 0.0 (1.0)
cmyn4* 0.001 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.08 0.00 0.00
LAB*LABa 0.08 0.00 0.00
LAB*LABb 0.08 0.00 0.00
LAB*LABc 0.08 0.00 0.00

relative CIELAB lab*
lab*lab 0.001 0.0 0.0 (1.0)
lab*tch 0.001 0.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.001 0.0 0.0 (1.0)
lab*tch 0.001 0.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)
olv3* 0.000 0.0 0.0 (1.0)
cmyn3* 1.000 0.0 0.0 (0.0)
olv4* 0.999 1.0 0.0 (1.0)
cmyn4* 0.001 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.04 0.00 0.00
LAB*LABa 0.04 0.00 0.00
LAB*LABb 0.04 0.00 0.00
LAB*LABc 0.04 0.00 0.00

relative CIELAB lab*
lab*lab 0.000 0.0 0.0 (1.0)
lab*tch 0.000 0.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.000 0.0 0.0 (1.0)
lab*tch 0.000 0.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)
olv3* 0.000 0.0 0.0 (1.0)
cmyn3* 1.000 0.0 0.0 (0.0)
olv4* 0.999 1.0 0.0 (1.0)
cmyn4* 0.001 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.02 0.00 0.00
LAB*LABa 0.02 0.00 0.00
LAB*LABb 0.02 0.00 0.00
LAB*LABc 0.02 0.00 0.00

relative CIELAB lab*
lab*lab 0.000 0.0 0.0 (1.0)
lab*tch 0.000 0.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.000 0.0 0.0 (1.0)
lab*tch 0.000 0.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)
olv3* 0.000 0.0 0.0 (1.0)
cmyn3* 1.000 0.0 0.0 (0.0)
olv4* 0.999 1.0 0.0 (1.0)
cmyn4* 0.001 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.01 0.00 0.00
LAB*LABa 0.01 0.00 0.00
LAB*LABb 0.01 0.00 0.00
LAB*LABc 0.01 0.00 0.00

relative CIELAB lab*
lab*lab 0.000 0.0 0.0 (1.0)
lab*tch 0.000 0.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.000 0.0 0.0 (1.0)
lab*tch 0.000 0.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)
olv3* 0.000 0.0 0.0 (1.0)
cmyn3* 1.000 0.0 0.0 (0.0)
olv4* 0.999 1.0 0.0 (1.0)
cmyn4* 0.001 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.00 0.00 0.00
LAB*LABa 0.00 0.00 0.00
LAB*LABb 0.00 0.00 0.00
LAB*LABc 0.00 0.00 0.00

relative CIELAB lab*
lab*lab 0.000 0.0 0.0 (1.0)
lab*tch 0.000 0.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.000 0.0 0.0 (1.0)
lab*tch 0.000 0.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)
olv3* 0.000 0.0 0.0 (1.0)
cmyn3* 1.000 0.0 0.0 (0.0)
olv4* 0.999 1.0 0.0 (1.0)
cmyn4* 0.001 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.00 0.00 0.00
LAB*LABa 0.00 0.00 0.00
LAB*LABb 0.00 0.00 0.00
LAB*LABc 0.00 0.00 0.00

relative CIELAB lab*
lab*lab 0.000 0.0 0.0 (1.0)
lab*tch 0.000 0.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.000 0.0 0.0 (1.0)
lab*tch 0.000 0.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)
olv3* 0.000 0.0 0.0 (1.0)
cmyn3* 1.000 0.0 0.0 (0.0)
olv4* 0.999 1.0 0.0 (1.0)
cmyn4* 0.001 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.00 0.00 0.00
LAB*LABa 0.00 0.00 0.00
LAB*LABb 0.00 0.00 0.00
LAB*LABc 0.00 0.00 0.00

relative CIELAB lab*
lab*lab 0.000 0.0 0.0 (1.0)
lab*tch 0.000 0.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.000 0.0 0.0 (1.0)
lab*tch 0.000 0.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)

Output: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 92/360 = 0.256$

Input: Colorimetric Natural Reflective System CNS18

for hue $h^* = lab^*h = 162/360 = 0.451$

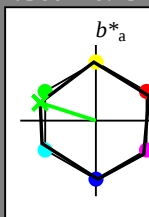
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 57 77 162

olv*Ma: 0.0 1.0 0.01

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 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*trj 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*LABa 76.07 0.0 0.0
LAB*TCHa 75.00 0.01

relative CIELAB lab*
lab*lab 0.875 0.237 0.076
lab*tch 0.875 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*trj 0.875 0.249 0.0
lab*tce 0.875 0.25 0.3
lab*nce 0.0 0.25 0.3

relative Inform. Technology (IT)
olv3* 0.5 1.0 0.503 (1.0)
cmyn3* 0.5 0.0 0.497 (0.0)
olv4* 0.5 1.0 0.503 (1.0)
cmyn4* 0.5 0.0 0.497 (0.0)
standard and adapted CIELAB
LAB*LAB 76.05 -36.78 11.8
LAB*LABa 76.05 -36.78 11.8
LAB*TCHa 75.0 38.64 162.22

relative CIELAB lab*
lab*lab 0.75 0.475 0.153
lab*tch 0.75 0.5 0.451
lab*nch 0.0 0.5 0.451
relative Natural Colour (NC)
lab*trj 0.75 0.499 0.0
lab*tce 0.75 0.5 0.3
lab*nce 0.0 0.5 0.3

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 56.72 0.0 0.0
LAB*LABa 56.72 0.0 0.0
LAB*TCHa 50.00 0.01

relative CIELAB lab*
lab*lab 0.625 0.237 0.076
lab*tch 0.625 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*trj 0.625 0.249 0.0
lab*tce 0.625 0.25 0.3
lab*nce 0.0 0.25 0.3

relative Inform. Technology (IT)
olv3* 0.25 0.75 0.25 (1.0)
cmyn3* 0.75 0.25 0.747 (0.0)
olv4* 0.5 1.0 0.503 (0.5)
cmyn4* 0.5 0.0 0.497 (0.5)
standard and adapted CIELAB
LAB*LAB 56.71 -36.79 11.8
LAB*LABa 56.71 -36.79 11.8
LAB*TCHa 50.0 38.64 162.22

relative CIELAB lab*
lab*lab 0.52 0.713 0.229
lab*tch 0.625 0.75 0.451
lab*nch 0.0 0.75 0.451
relative Natural Colour (NC)
lab*trj 0.625 0.749 0.0
lab*tce 0.625 0.75 0.5
lab*nce 0.0 0.75 0.5

relative Inform. Technology (IT)
olv3* 0.0 1.0 0.008 (1.0)
cmyn3* 0.0 0.0 0.994 (0.0)
olv4* 1.0 1.0 0.006 (1.0)
cmyn4* 0.0 0.0 0.994 (0.0)
standard and adapted CIELAB
LAB*LAB 56.7 -73.57 23.6
LAB*LABa 56.7 -73.57 23.6
LAB*TCHa 50.0 77.27 162.22

relative CIELAB lab*
lab*lab 0.5 -0.951 0.305
lab*tch 0.5 0.0 0.451
lab*nch 0.0 0.0 0.451
relative Natural Colour (NC)
lab*trj 0.5 -0.999 0.0
lab*tce 0.5 0.0 1.0
lab*nce 0.0 0.0 1.0

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.004 (1.0)
cmyn3* 0.0 0.25 0.996 (0.0)
olv4* 0.25 1.0 0.254 (0.5)
cmyn4* 0.0 0.75 0.451 (0.5)
standard and adapted CIELAB
LAB*LAB 47.03 -55.18 17.7
LAB*LABa 47.03 -55.18 17.7
LAB*TCHa 37.51 57.96 162.22

relative CIELAB lab*
lab*lab 0.375 -0.713 0.229
lab*tch 0.375 0.75 0.451
lab*nch 0.0 0.75 0.451
relative Natural Colour (NC)
lab*trj 0.375 -0.749 0.0
lab*tce 0.375 0.75 0.999
lab*nce 0.0 0.75 0.999

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 25.00 0.01

relative CIELAB lab*
lab*lab 0.375 0.237 0.076
lab*tch 0.375 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*trj 0.375 0.249 0.0
lab*tce 0.375 0.25 0.3
lab*nce 0.0 0.25 0.3

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.003 (1.0)
cmyn3* 0.5 0.0 0.997 (0.0)
olv4* 0.5 1.0 0.503 (0.5)
cmyn4* 0.5 0.0 0.497 (0.5)
standard and adapted CIELAB
LAB*LAB 37.36 -36.78 11.8
LAB*LABa 37.36 -36.78 11.8
LAB*TCHa 25.01 38.64 162.22

relative CIELAB lab*
lab*lab 0.25 -0.475 0.153
lab*tch 0.25 0.5 0.451
lab*nch 0.0 0.5 0.451
relative Natural Colour (NC)
lab*trj 0.25 -0.499 0.0
lab*tce 0.25 0.5 0.3
lab*nce 0.0 0.5 0.3

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*LABa 18.03 0.0 0.0
LAB*TCHa 0.01 0.01

relative CIELAB lab*
lab*lab 0.125 -0.237 0.076
lab*tch 0.125 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*trj 0.125 0.249 0.0
lab*tce 0.125 0.25 0.3
lab*nce 0.0 0.25 0.3

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.003 (1.0)
cmyn3* 0.0 0.25 0.997 (0.0)
olv4* 0.75 1.0 0.75 (0.5)
cmyn4* 0.0 0.75 0.451 (0.5)
standard and adapted CIELAB
LAB*LAB 27.69 -18.39 5.9
LAB*LABa 27.69 -18.39 5.9
LAB*TCHa 12.5 19.32 162.21

relative CIELAB lab*
lab*lab 0.125 -0.237 0.076
lab*tch 0.125 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*trj 0.125 0.249 0.0
lab*tce 0.125 0.25 0.3
lab*nce 0.0 0.25 0.3

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*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 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 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*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 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 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*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 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 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*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 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 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*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 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 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*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 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 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*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 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 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*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 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

Output: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 162/360 = 0.451$

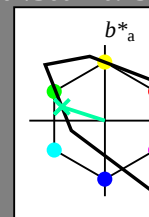
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 86 60 162

olv*Ma: 0.0 1.0 0.64

triangle lightness t^*



TLS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	52.76	71.63	49.88	87.29	35
YMa	92.74	-20.02	84.97	87.3	103
LMa	84.0	-78.98	73.94	108.2	137
CMa	87.14	-44.41	-13.11	46.32	196
VMa	35.47	64.92	-95.06	115.12	304
MMa	59.01	89.33	-55.67	105.26	328
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

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

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 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*trj 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*LABa 76.07 0.0 0.0
LAB*TCHa 75.00 0.01

relative CIELAB lab*
lab*lab 0.875 0.237 0.076
lab*tch 0.875 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*trj 0.875 0.249 0.0
lab*tce 0.875 0.25 0.3
lab*nce 0.0 0.25 0.3

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.0 0.503 (0.0)
olv4* 0.5 1.0 0.503 (0.5)
cmyn4* 0.5 0.0 0.497 (0.5)
standard and adapted CIELAB
LAB*LAB 76.05 -36.78 11.8
LAB*LABa 76.05 -36.78 11.8
LAB*TCHa 75.0 38.64 162.22

relative CIELAB lab*
lab*lab 0.75 0.475 0.153
lab*tch 0.75 0.5 0.451
lab*nch 0.0 0.5 0.451
relative Natural Colour (NC)
lab*trj 0.75 0.499 0.0
lab*tce 0.75 0.5 0.3
lab*nce 0.0 0.5 0.3

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 56.72 0.0 0.0
LAB*LABa 56.72 0.0 0.0
LAB*TCHa 50.00 0.01

relative CIELAB lab*
lab*lab 0.625 0.237 0.076
lab*tch 0.625 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*trj 0.625 0.249 0.0
lab*tce 0.625 0.25 0.3
lab*nce 0.0 0.25 0.3

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.004 (1.0)
cmyn3* 0.0 0.25 0.994 (0.0)
olv4* 0.5 1.0 0.006 (1.0)
cmyn4* 0.0 0.75 0.451 (0.5)
standard and adapted CIELAB
LAB*LAB 56.7 -73.57 23.6
LAB*LABa 56.7 -73.57 23.6
LAB*TCHa 50.0 77.27 162.22

relative CIELAB lab*
lab*lab 0.5 -0.951 0.305
lab*tch 0.5 0.0 0.451
lab*nch 0.0 0.0 0.451
relative Natural Colour (NC)
lab*trj 0.5 -0.999 0.0
lab*tce 0.5 0.0 1.0
lab*nce 0.0 0.0 1.0

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 25.00 0.01

relative CIELAB lab*
lab*lab 0.375 0.237 0.076
lab*tch 0.375 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*trj 0.375 0.249 0.0
lab*tce 0.375 0.25 0.3
lab*nce 0.0 0.25 0.3

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.003 (1.0)
cmyn3* 0.5 0.0 0.997 (0.0)
olv4* 0.5 1.0 0.503 (0.5)
cmyn4* 0.5 0.0 0.497 (0.5)
standard and adapted CIELAB
LAB*LAB 37.36 -36.78 11.8
LAB*LABa 37.36 -36.78 11.8
LAB*TCHa 25.01 38.64 162.22

relative CIELAB lab*
lab*lab 0.25 -0.475 0.153
lab*tch 0.25 0.5 0.451
lab*nch 0.0 0.5 0.451
relative Natural Colour (NC)
lab*

