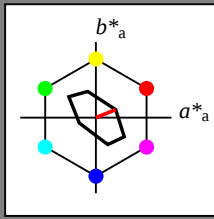


Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 22/360 = 0.061$
 $lab \cdot tch$ and $lab \cdot nch$

D65: hue O
LCH*Ma: 76 28 22
olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



TLS70; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RC _{IE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

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

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

relative Inform. Technology (IT)					
olv3*	1.0	1.0	1.0	1.0	1.0
olv3*	0.0	0.0	0.0	0.0	0.0
olv4*	1.0	1.0	1.0	1.0	1.0
olv4*	0.0	0.0	0.0	0.0	0.0
olv5*	1.0	1.0	1.0	1.0	1.0
olv5*	0.0	0.0	0.0	0.0	0.0

standard and adapted CIELAB					
LAB*Lab	95.41	0.0	0.0	0.0	0.0
LAB*Lab	95.41	0.0	0.0	0.0	0.0
LAB*Lab	95.41	0.0	0.0	0.0	0.0
LAB*Lab	95.41	0.0	0.0	0.0	0.0
LAB*Lab	95.41	0.0	0.0	0.0	0.0

relative CIELAB lab*					
lab*lab	1.0	0.0	0.0	0.0	0.0
lab*lab	1.0	0.0	0.0	0.0	0.0
lab*lab	1.0	0.0	0.0	0.0	0.0
lab*lab	1.0	0.0	0.0	0.0	0.0
lab*lab	1.0	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)					
olv3*	0.75	0.75	0.75	0.75	0.75
olv3*	0.25	0.25	0.25	0.25	0.25
olv4*	1.0	1.0	1.0	1.0	1.0
olv4*	0.0	0.0	0.0	0.0	0.0
olv5*	1.0	1.0	1.0	1.0	1.0
olv5*	0.0	0.0	0.0	0.0	0.0

standard and adapted CIELAB					
LAB*Lab	88.98	0.0	0.0	0.0	0.0
LAB*Lab	88.98	0.0	0.0	0.0	0.0
LAB*Lab	88.98	0.0	0.0	0.0	0.0
LAB*Lab	88.98	0.0	0.0	0.0	0.0
LAB*Lab	88.98	0.0	0.0	0.0	0.0

relative CIELAB lab*					
lab*lab	0.815	0.232	0.093	0.093	0.093
lab*lab	0.815	0.232	0.093	0.093	0.093
lab*lab	0.815	0.232	0.093	0.093	0.093
lab*lab	0.815	0.232	0.093	0.093	0.093
lab*lab	0.815	0.232	0.093	0.093	0.093

relative Inform. Technology (IT)					
olv3*	0.75	0.75	0.75	0.75	0.75
olv3*	0.25	0.25	0.25	0.25	0.25
olv4*	1.0	1.0	1.0	1.0	1.0
olv4*	0.0	0.0	0.0	0.0	0.0
olv5*	1.0	1.0	1.0	1.0	1.0
olv5*	0.0	0.0	0.0	0.0	0.0

standard and adapted CIELAB					
LAB*Lab	82.56	0.0	0.0	0.0	0.0
LAB*Lab	82.56	0.0	0.0	0.0	0.0
LAB*Lab	82.56	0.0	0.0	0.0	0.0
LAB*Lab	82.56	0.0	0.0	0.0	0.0
LAB*Lab	82.56	0.0	0.0	0.0	0.0

relative CIELAB lab*					
lab*lab	0.631	0.464	0.187	0.187	0.187
lab*lab	0.631	0.464	0.187	0.187	0.187
lab*lab	0.631	0.464	0.187	0.187	0.187
lab*lab	0.631	0.464	0.187	0.187	0.187
lab*lab	0.631	0.464	0.187	0.187	0.187

relative Inform. Technology (IT)					
olv3*	0.5	0.5	0.5	0.5	0.5
olv3*	0.0	0.0	0.0	0.0	0.0
olv4*	1.0	1.0	1.0	1.0	1.0
olv4*	0.0	0.0	0.0	0.0	0.0
olv5*	1.0	1.0	1.0	1.0	1.0
olv5*	0.0	0.0	0.0	0.0	0.0

standard and adapted CIELAB					
LAB*Lab	75.00	0.0	0.0	0.0	0.0
LAB*Lab	75.00	0.0	0.0	0.0	0.0
LAB*Lab	75.00	0.0	0.0	0.0	0.0
LAB*Lab	75.00	0.0	0.0	0.0	0.0
LAB*Lab	75.00	0.0	0.0	0.0	0.0

relative CIELAB lab*					
lab*lab	0.555	0.25	0.011	0.011	0.011
lab*lab	0.555	0.25	0.011	0.011	0.011
lab*lab	0.555	0.25	0.011	0.011	0.011
lab*lab	0.555	0.25	0.011	0.011	0.011
lab*lab	0.555	0.25	0.011	0.011	0.011

relative Inform. Technology (IT)					
olv3*	0.25	0.25	0.25	0.25	0.25
olv3*	0.75	0.75	0.75	0.75	0.75
olv4*	1.0	1.0	1.0	1.0	1.0
olv4*	0.0	0.0	0.0	0.0	0.0
olv5*	1.0	1.0	1.0	1.0	1.0
olv5*	0.0	0.0	0.0	0.0	0.0

standard and adapted CIELAB					
LAB*Lab	72.81	6.57	2.64	2.64	2.64
LAB*Lab	72.81	6.57	2.64	2.64	2.64
LAB*Lab	72.81	6.57	2.64	2.64	2.64
LAB*Lab	72.81	6.57	2.64	2.64	2.64
LAB*Lab	72.81	6.57	2.64	2.64	2.64

relative CIELAB lab*					
lab*lab	0.381	0.499	-0.024	-0.024	-0.024
lab*lab	0.381	0.499	-0.024	-0.024	-0.024
lab*lab	0.381	0.499	-0.024	-0.024	-0.024
lab*lab	0.381	0.499	-0.024	-0.024	-0.024
lab*lab	0.381	0.499	-0.024	-0.024	-0.024

relative Inform. Technology (IT)					
olv3*	0.25	0.25	0.25	0.25	0.25
olv3*	0.75	0.75	0.75	0.75	0.75
olv4*	1.0	1.0	1.0	1.0	1.0
olv4*	0.0	0.0	0.0	0.0	0.0
olv5*	1.0	1.0	1.0	1.0	1.0
olv5*	0.0	0.0	0.0	0.0	0.0

standard and adapted CIELAB					
LAB*Lab	76.13	13.13	0.0	0.0	0.0
LAB*Lab	76.13	13.13	0.0	0.0	0.0
LAB*Lab	76.13	13.13	0.0	0.0	0.0
LAB*Lab	76.13	13.13	0.0	0.0	0.0
LAB*Lab	76.13	13.13	0.0	0.0	0.0

relative CIELAB lab*					
lab*lab	0.196	0.696	0.28	0.28	0.28
lab*lab	0.196	0.696	0.28	0.28	0.28
lab*lab	0.196	0.696	0.28	0.28	0.28
lab*lab	0.196	0.696	0.28	0.28	0.28
lab*lab	0.196	0.696	0.28	0.28	0.28

relative Inform. Technology (IT)					
olv3*	0.0	0.0	0.0	0.0	0.0
olv3*	1.0	1.0	1.0	1.0	1.0
olv4*	1.0	1.0	1.0	1.0	1.0
olv4*	0.0	0.0	0.0	0.0	0.0
olv5*	1.0	1.0	1.0	1.0	1.0
olv5*	0.0	0.0	0.0	0.0	0.0

standard and adapted CIELAB					
LAB*Lab	69.7	0.0	0.0	0.0	0.0
LAB*Lab	69.7	0.0	0.0	0.0	0.0
LAB*Lab	69.7	0.0	0.0	0.0	0.0
LAB*Lab	69.7	0.0	0.0	0.0	0.0
LAB*Lab	69.7	0.0	0.0	0.0	0.0

relative CIELAB lab*					
lab*lab	0.131	0.464	0.187	0.187	0.187
lab*lab	0.131	0.464	0.187	0.187	0.187
lab*lab	0.131	0.464	0.187	0.187	0.187
lab*lab	0.131	0.464	0.187	0.187	0.187
lab*lab	0.131	0.464	0.187	0.187	0.187

relative Inform. Technology (IT)					
olv3*	0.0	0.0	0.0	0.0	0.0
olv3*	1.0	1.0	1.0	1.0	1.0
olv4*	1.0	1.0	1.0	1.0	1.0
olv4*	0.0	0.0	0.0	0.0	0.0
olv5*	1.0	1.0	1.0	1.0	1.0
olv5*	0.0	0.0	0.0	0.0	0.0

standard and adapted CIELAB					
LAB*Lab	69.7	0.0	0.0	0.0	0.0
LAB*Lab	69.7	0.0	0.0	0.0	0.0
LAB*Lab	69.7	0.0	0.0	0.0	0.0
LAB*Lab	69.7	0.0	0.0	0.0	0.0
LAB*Lab	69.7	0.0	0.0	0.0	0.0

relative CIELAB lab*					
lab*lab	0.066	0.232	0.093	0.093	0.093
lab*lab	0.066	0.232	0.093	0.093	0.093
lab*lab	0.066	0.232	0.093	0.093	0.093
lab*lab	0.066	0.232	0.093	0.093	0.093
lab*lab	0.066	0.232	0.093	0.093	0.093

relative Inform. Technology (IT)					
olv3*	0.0	0.0	0.0	0.0	0.0
olv3*	1.0	1.0	1.0	1.0	1.0
olv4*	1.0	1.0	1.0	1.0	1.0
olv4*	0.0	0.0	0.0	0.0	0.0
olv5*	1.0	1.0	1.0	1.0	1.0
olv5*	0.0	0.0	0.0	0.0	0.0

standard and adapted CIELAB					
LAB*Lab	69.7	0.0	0.0	0.0	0.0
LAB*Lab	69.7	0.0	0.0	0.0	0.0
LAB*Lab	69.7	0.0	0.0	0.0	0.0
LAB*Lab	69.7	0.0	0.0	0.0	0.0
LAB*Lab	69.7	0.0	0.0	0.0	0.0

relative CIELAB lab*					
lab*lab	0.0	0.0	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0	0.0	0.0

$n^* = 1,0$
NE580-7, 5 step sca

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 107/360 = 0.298$

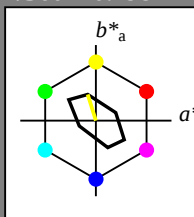
lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 94 36 107

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

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

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

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv2*	0.0	0.0	0.0	(0.0)
olv1*	1.0	1.0	1.0	(1.0)
olv0*	0.0	0.0	0.0	(0.0)
cmv3*	0.0	0.0	0.0	(0.0)
cmv2*	0.0	0.0	0.0	(0.0)
cmv1*	0.0	0.0	0.0	(0.0)
cmv0*	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
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*	1.0	1.0	0.75	(1.0)
olv2*	0.0	0.0	0.25	(0.0)
olv1*	1.0	1.0	0.75	(1.0)
olv0*	0.0	0.0	0.25	(0.0)
cmv3*	0.0	0.0	0.25	(0.0)
cmv2*	0.0	0.0	0.25	(0.0)
cmv1*	0.0	0.0	0.25	(0.0)
cmv0*	0.0	0.0	0.25	(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
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*	1.0	1.0	0.5	(1.0)
olv2*	0.0	0.0	0.5	(0.0)
olv1*	1.0	1.0	0.5	(1.0)
olv0*	0.0	0.0	0.5	(0.0)
cmv3*	0.0	0.0	0.5	(0.0)
cmv2*	0.0	0.0	0.5	(0.0)
cmv1*	0.0	0.0	0.5	(0.0)
cmv0*	0.0	0.0	0.5	(0.0)

standard and adapted CIELAB

LAB*Lab	94.67	-5.37	17.31
LAB*Lab	94.67	-5.37	17.31
LAB*Lab	94.67	-5.37	17.31
LAB*Lab	94.67	-5.37	17.31

relative CIELAB lab*

lab*lab	0.971	-0.147	0.477
lab*lab	0.971	-0.147	0.477
lab*lab	0.971	-0.147	0.477
lab*lab	0.971	-0.147	0.477

relative Natural Colour (NC)

lab*trj	0.971	-0.147	0.477
lab*trj	0.971	-0.147	0.477
lab*trj	0.971	-0.147	0.477
lab*trj	0.971	-0.147	0.477

relative Inform. Technology (IT)

olv3*	1.0	1.0	0.25	(1.0)
olv2*	0.0	0.0	0.25	(0.0)
olv1*	1.0	1.0	0.25	(1.0)
olv0*	0.0	0.0	0.25	(0.0)
cmv3*	0.0	0.0	0.25	(0.0)
cmv2*	0.0	0.0	0.25	(0.0)
cmv1*	0.0	0.0	0.25	(0.0)
cmv0*	0.0	0.0	0.25	(0.0)

standard and adapted CIELAB

LAB*Lab	94.3	-8.07	25.97
LAB*Lab	94.3	-8.07	25.97
LAB*Lab	94.3	-8.07	25.97
LAB*Lab	94.3	-8.07	25.97

relative CIELAB lab*

lab*lab	0.957	-0.246	0.708
lab*lab	0.957	-0.246	0.708
lab*lab	0.957	-0.246	0.708
lab*lab	0.957	-0.246	0.708

relative Natural Colour (NC)

lab*trj	0.957	-0.246	0.708
lab*trj	0.957	-0.246	0.708
lab*trj	0.957	-0.246	0.708
lab*trj	0.957	-0.246	0.708

relative Inform. Technology (IT)

olv3*	1.0	1.0	0.0	(1.0)
olv2*	0.0	0.0	0.0	(0.0)
olv1*	1.0	1.0	0.0	(1.0)
olv0*	0.0	0.0	0.0	(0.0)
cmv3*	0.0	0.0	0.0	(0.0)
cmv2*	0.0	0.0	0.0	(0.0)
cmv1*	0.0	0.0	0.0	(0.0)
cmv0*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	93.93	-10.76	34.62
LAB*Lab	93.93	-10.76	34.62
LAB*Lab	93.93	-10.76	34.62
LAB*Lab	93.93	-10.76	34.62

relative CIELAB lab*

lab*lab	0.942	-0.296	0.955
lab*lab	0.942	-0.296	0.955
lab*lab	0.942	-0.296	0.955
lab*lab	0.942	-0.296	0.955

relative Natural Colour (NC)

lab*trj	0.942	-0.296	0.955
lab*trj	0.942	-0.296	0.955
lab*trj	0.942	-0.296	0.955
lab*trj	0.942	-0.296	0.955

relative Inform. Technology (IT)

olv3*	1.0	1.0	0.0	(1.0)
olv2*	0.0	0.0	0.0	(0.0)
olv1*	1.0	1.0	0.0	(1.0)
olv0*	0.0	0.0	0.0	(0.0)
cmv3*	0.0	0.0	0.0	(0.0)
cmv2*	0.0	0.0	0.0	(0.0)
cmv1*	0.0	0.0	0.0	(0.0)
cmv0*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	93.93	-10.76	34.62
LAB*Lab	93.93	-10.76	34.62
LAB*Lab	93.93	-10.76	34.62
LAB*Lab	93.93	-10.76	34.62

relative CIELAB lab*

lab*lab	0.942	-0.296	0.955
lab*lab	0.942	-0.296	0.955
lab*lab	0.942	-0.296	0.955
lab*lab	0.942	-0.296	0.955

relative Natural Colour (NC)

lab*trj	0.942	-0.296	0.955
lab*trj	0.942	-0.296	0.955
lab*trj	0.942	-0.296	0.955
lab*trj	0.942	-0.296	0.955

relative Inform. Technology (IT)

olv3*	1.0	1.0	0.0	(1.0)
olv2*	0.0	0.0	0.0	(0.0)
olv1*	1.0	1.0	0.0	(1.0)
olv0*	0.0	0.0	0.0	(0.0)
cmv3*	0.0	0.0	0.0	(0.0)
cmv2*	0.0	0.0	0.0	(0.0)
cmv1*	0.0	0.0	0.0	(0.0)
cmv0*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	93.93	-10.76	34.62
LAB*Lab	93.93	-10.76	34.62
LAB*Lab	93.93	-10.76	34.62
LAB*Lab	93.93	-10.76	34.62

relative CIELAB lab*

lab*lab	0.942	-0.296	0.955
lab*lab	0.942	-0.296	0.955
lab*lab	0.942	-0.296	0.955
lab*lab	0.942	-0.296	0.955

relative Natural Colour (NC)

lab*trj	0.942	-0.296	0.955
lab*trj	0.942	-0.296	0.955
lab*trj	0.942	-0.296	0.955
lab*trj	0.942	-0.296	0.955

relative Inform. Technology (IT)

olv3*	1.0	1.0	0.0	(1.0)
olv2*	0.0	0.0	0.0	(0.0)
olv1*	1.0	1.0	0.0	(1.0)
olv0*	0.0	0.0	0.0	(0.0)
cmv3*	0.0	0.0	0.0	(0.0)
cmv2*	0.0	0.0	0.0	(0.0)
cmv1*	0.0	0.0	0.0	(0.0)
cmv0*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	93.93	-10.76	34.62
LAB*Lab	93.93	-10.76	34.62
LAB*Lab	93.93	-10.76	34.62
LAB*Lab	93.93	-10.76	34.62

relative CIELAB lab*

lab*lab	0.942	-0.296	0.955
lab*lab	0.942	-0.296	0.955
lab*lab	0.942	-0.296	0.955
lab*lab	0.942	-0.296	0.955

relative Natural Colour (NC)

lab*trj	0.942	-0.296	0.955
lab*trj	0.942	-0.296	0.955
lab*trj	0.942	-0.296	0.955
lab*trj	0.942	-0.296	0.955

relative Inform. Technology (IT)

olv3*	1.0	1.0	0.0	(1.0)
olv2*	0.0	0.0	0.0	(0.0)
olv1*	1.0	1.0	0.0	(1.0)
olv0*	0.0	0.0	0.0	(0.0)
cmv3*	0.0	0.0	0.0	(0.0)
cmv2*	0.0	0.0	0.0	(0.0)
cmv1*	0.0	0.0	0.0	(0.0)
cmv0*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	93.93	-10.76	34.62
LAB*Lab	93.93	-10.76	34.62
LAB*Lab	93.93	-10.76	34.62
LAB*Lab	93.93	-10.76	34.62

relative CIELAB lab*

lab*lab	0.942	-0.296	0.955
lab*lab	0.942	-0.296	0.955
lab*lab	0.942	-0.296	0.955
lab*lab	0.942	-0.296	0.955

relative Natural Colour (NC)

lab*trj	0.942	-0.296	0.955
lab*trj	0.942	-0.296	0.955
lab*trj	0.942	-0.296	0.955
lab*trj	0.942	-0.296	0.955

relative Inform. Technology (IT)

olv3*	1.0	1.0	0.0	(1.0)
olv2*	0.0	0.0	0.0	(0.0)
olv1*	1.0	1.0	0.0	(1.0)
olv0*	0.0	0.0	0.0	(0.0)
cmv3*	0.0	0.0	0.0	(0.0)
cmv2*	0.0	0.0	0.0	(0.0)
cmv1*	0.0	0.0	0.0	(0.0)
cmv0*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	93.93	-10.76	34.62
LAB*Lab	93.93	-10.76	34.62
LAB*Lab	93.93	-10.76	34.62
LAB*Lab	93.93	-10.76	34.62

relative CIELAB lab*

lab*lab	0.942	-0.296	0.955
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lab*lab	0.942	-0.296	0.955
lab*lab	0.942	-0.296	0.955

relative Natural Colour (NC)

lab*trj	0.942	-0.296	0.955
lab*trj	0.942	-0.296	0.955
lab*trj	0.942	-0.296	0.955
lab*trj	0.942	-0.296	0.955

relative Inform. Technology (IT)

olv3*	1.0	1.0	0.0	(1.0)
olv2*	0.0	0.0	0.0	(0.0)
olv1*	1.0	1.0	0.0	(1.0)
olv0*	0.0	0.0	0.0	(0.0)
cmv3*	0.0	0.0	0.0	(0.0)
cmv2*	0.0	0.0	0.0	(0.0)
cmv1*	0.0	0.0	0.0	(0.0)
cmv0*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	93.93	-10.76	34.62
LAB*Lab	93.93	-10.76	34.62
LAB*Lab	93.93	-10.76	34.62
LAB*Lab	93.93	-10.76	34.62

relative CIELAB lab*

lab*lab	0.942	-0.296	0.955
lab*lab	0.942	-0.296	0.955
lab*lab	0.942	-0.296	0.955
lab*lab	0.942	-0.296	0.955

relative Natural Colour (NC)

lab*trj	0.942	-0.296	0.955
lab*trj	0.942	-0.296	0.955
lab*trj	0.942	-0.296	0.955
lab*trj	0.942	-0.296	0.955

relative Inform. Technology (IT)

olv3*	1.0	1.0	0.0	(1.0)
olv2*	0.0	0.0	0.0	(0.0)
olv1*	1.0	1.0	0.0	(1.0)
olv0*	0.0	0.0	0.0	(0.0)
cmv3*	0.0	0.0	0.0	(0.0)
cmv2*	0.0	0.0	0.0	(0.0)
cmv1*	0.0	0.0	0.0	(0.0)
cmv0*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	93.93	-10.76</
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Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 142/360 = 0.395$

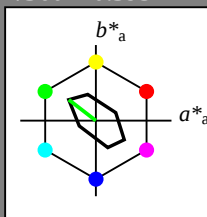
lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 89 45 142

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



TLS70; adapted (a) CIELAB data					
	$L^*=L_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

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

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

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

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

relative Inform. Technology (IT)					
olv3*	0.0	0.0	0.0	0.0	0.0
olv4*	0.0	0.0	0.0	0.0	0.0
olv5*	0.0	0.0	0.0	0.0	0.0
olv6*	0.0	0.0	0.0	0.0	0.0
olv7*	0.0	0.0	0.0	0.0	0.0

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 198/360 = 0.55$

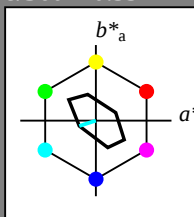
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 91 23 198

olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

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

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

relative Inform. Technology (IT)

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

relative Inform. Technology (IT)

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

relative Inform. Technology (IT)			
olv13*	0.5	1.0	1.0 (1.0)
cmyn3*	0.5	0.0	0.0 (0.0)
olv14*	0.5	1.0	1.0
cmyn4*	0.5	0.0	0.0

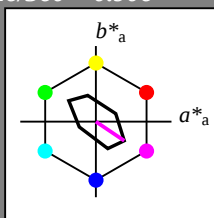
standard and adapted CIELAB

LAB*LAB	93.17	-10.97	-3.53
LAB*LAB ₉₂	92.17	-10.97	2.23

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 326/360 = 0.906$
 lab^*tch and lab^*nch

D65: hue M
LCH*Ma: 79 45 326
olv*Ma: 1.0 0.0 1.0
triangle lightness t^*



TLS70; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

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

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

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 0.0 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*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 88.98 0.0 0.0
LAB*LABa 88.98 0.0 0.0
LAB*TCHa 75.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.836 0.207 -0.138
lab*tch 0.875 0.25 0.906
lab*nch 0.0 0.25 0.906
relative Natural Colour (NC)
lab*trj 0.836 0.17 -0.182
lab*tce 0.875 0.25 0.869
lab*nce 0.0 0.25 0.874

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 88.98 0.0 0.0
LAB*LABa 88.98 0.0 0.0
LAB*TCHa 75.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.836 0.207 -0.138
lab*tch 0.875 0.25 0.906
lab*nch 0.0 0.25 0.906
relative Natural Colour (NC)
lab*trj 0.836 0.17 -0.182
lab*tce 0.875 0.25 0.869
lab*nce 0.0 0.25 0.874

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 82.56 0.0 0.0
LAB*LABa 82.56 0.0 0.0
LAB*TCHa 50.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.586 0.207 -0.139
lab*tch 0.625 0.25 0.906
lab*nch 0.25 0.25 0.906
relative Natural Colour (NC)
lab*trj 0.586 0.17 -0.182
lab*tce 0.625 0.25 0.869
lab*nce 0.25 0.25 0.874

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.13 0.0 0.0
LAB*LABa 76.13 0.0 0.0
LAB*TCHa 25.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.336 0.207 -0.139
lab*tch 0.375 0.25 0.906
lab*nch 0.75 0.25 0.906
relative Natural Colour (NC)
lab*trj 0.336 0.17 -0.182
lab*tce 0.375 0.25 0.869
lab*nce 0.75 0.25 0.874

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.13 0.0 0.0
LAB*LABa 76.13 0.0 0.0
LAB*TCHa 25.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.336 0.207 -0.139
lab*tch 0.375 0.25 0.906
lab*nch 0.75 0.25 0.906
relative Natural Colour (NC)
lab*trj 0.336 0.17 -0.182
lab*tce 0.375 0.25 0.869
lab*nce 0.75 0.25 0.874

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.13 0.0 0.0
LAB*LABa 76.13 0.0 0.0
LAB*TCHa 25.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.336 0.207 -0.139
lab*tch 0.375 0.25 0.906
lab*nch 0.75 0.25 0.906
relative Natural Colour (NC)
lab*trj 0.336 0.17 -0.182
lab*tce 0.375 0.25 0.869
lab*nce 0.75 0.25 0.874

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 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.0 0.0 0.0

relative CIELAB lab*
lab*lab 0.086 0.207 -0.138
lab*tch 0.125 0.25 0.906
lab*nch 0.75 0.25 0.906
relative Natural Colour (NC)
lab*trj 0.086 0.17 -0.182
lab*tce 0.125 0.25 0.869
lab*nce 0.75 0.25 0.874

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 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.0 0.0 0.0

relative CIELAB lab*
lab*lab 0.086 0.207 -0.138
lab*tch 0.125 0.25 0.906
lab*nch 0.75 0.25 0.906
relative Natural Colour (NC)
lab*trj 0.086 0.17 -0.182
lab*tce 0.125 0.25 0.869
lab*nce 0.75 0.25 0.874

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 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.0 0.0 0.0

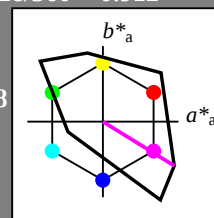
relative CIELAB lab*
lab*lab 0.086 0.207 -0.138
lab*tch 0.125 0.25 0.906
lab*nch 0.75 0.25 0.906
relative Natural Colour (NC)
lab*trj 0.086 0.17 -0.182
lab*tce 0.125 0.25 0.869
lab*nce 0.75 0.25 0.874

NE580-7, 5 step scales for constant CIELAB hue 326/360 = 0.906 (left)

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 328/360 = 0.912$
 lab^*tch and lab^*nch

D65: hue M
LCH*Ma: 57 111 328
olv*Ma: 1.0 0.0 1.0
triangle lightness t^*



TLS00; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

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 0.0 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*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 88.98 0.0 0.0
LAB*LABa 88.98 0.0 0.0
LAB*TCHa 75.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.836 0.207 -0.138
lab*tch 0.875 0.25 0.912
lab*nch 0.0 0.25 0.912
relative Natural Colour (NC)
lab*trj 0.836 0.17 -0.177
lab*tce 0.875 0.25 0.874
lab*nce 0.0 0.25 0.874

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 88.98 0.0 0.0
LAB*LABa 88.98 0.0 0.0
LAB*TCHa 75.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.836 0.207 -0.138
lab*tch 0.875 0.25 0.912
lab*nch 0.0 0.25 0.912
relative Natural Colour (NC)
lab*trj 0.836 0.17 -0.177
lab*tce 0.875 0.25 0.874
lab*nce 0.0 0.25 0.874

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 82.56 0.0 0.0
LAB*LABa 82.56 0.0 0.0
LAB*TCHa 50.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.586 0.207 -0.139
lab*tch 0.625 0.25 0.912
lab*nch 0.25 0.25 0.912
relative Natural Colour (NC)
lab*trj 0.586 0.17 -0.177
lab*tce 0.625 0.25 0.874
lab*nce 0.25 0.25 0.874

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.13 0.0 0.0
LAB*LABa 76.13 0.0 0.0
LAB*TCHa 25.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.336 0.207 -0.139
lab*tch 0.375 0.25 0.912
lab*nch 0.75 0.25 0.912
relative Natural Colour (NC)
lab*trj 0.336 0.17 -0.177
lab*tce 0.375 0.25 0.874
lab*nce 0.75 0.25 0.874

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.13 0.0 0.0
LAB*LABa 76.13 0.0 0.0
LAB*TCHa 25.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.336 0.207 -0.139
lab*tch 0.375 0.25 0.912
lab*nch 0.75 0.25 0.912
relative Natural Colour (NC)
lab*trj 0.336 0.17 -0.177
lab*tce 0.375 0.25 0.874
lab*nce 0.75 0.25 0.874

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 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.0 0.0 0.0

relative CIELAB lab*
lab*lab 0.086 0.207 -0.138
lab*tch 0.125 0.25 0.912
lab*nch 0.75 0.25 0.912
relative Natural Colour (NC)
lab*trj 0.086 0.17 -0.177
lab*tce 0.125 0.25 0.874
lab*nce 0.75 0.25 0.874

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 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.0 0.0 0.0

relative CIELAB lab*
lab*lab 0.086 0.207 -0.138
lab*tch 0.125 0.25 0.912
lab*nch 0.75 0.25 0.912
relative Natural Colour (NC)
lab*trj 0.086 0.17 -0.177
lab*tce 0.125 0.25 0.874
lab*nce 0.75 0.25 0.874

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 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.0 0.0 0.0

relative CIELAB lab*
lab*lab 0.086 0.207 -0.138
lab*tch 0.125 0.25 0.912
lab*nch 0.75 0.25 0.912
relative Natural Colour (NC)
lab*trj 0.086 0.17 -0.177
lab*tce 0.125 0.25 0.874
lab*nce 0.75 0.25 0.874

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 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.0 0.0 0.0

relative CIELAB lab*
lab*lab 0.086 0.207 -0.138
lab*tch 0.125 0.25 0.912
lab*nch 0.75 0.25 0.912
relative Natural Colour (NC)
lab*trj 0.086 0.17 -0.177
lab*tce 0.125 0.25 0.874
lab*nce 0.75 0.25 0.874

5 step scales for constant CIELAB hue 328/360 = 0.912 (right)

BAM-test chart NE58; Colorimetric systems TLS70 & TLS00

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

input: `olv* setrgbcolor`

output: *no change compared to input*

Input: Colorimetric Television Luminous System TLS70

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

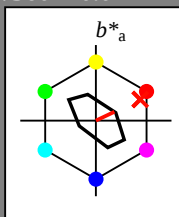
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 77 27 25

olv*Ma: 1.0 0.05 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 16$

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	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 Inform. Technology (IT)

olv3*	1.0	0.762	0.75	(1.0)
olv3*	0.0	0.238	0.25	(0.0)
olv4*	1.0	0.762	0.75	(1.0)
olv4*	0.0	0.238	0.25	(0.0)
olv5*	1.0	0.762	0.75	(1.0)
olv5*	0.0	0.238	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	90.87	6.13	2.92
LAB*LAB	90.87	6.13	2.92
LAB*LAB	90.87	6.13	2.92

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.0	0.25	0.25	(0.0)
olv4*	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)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.0	0.25	0.25	(0.0)
olv4*	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)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.0	0.25	0.25	(0.0)
olv4*	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)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.0	0.25	0.25	(0.0)
olv4*	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)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.0	0.25	0.25	(0.0)
olv4*	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)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.0	0.25	0.25	(0.0)
olv4*	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)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.0	0.25	0.25	(0.0)
olv4*	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)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.0	0.25	0.25	(0.0)
olv4*	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)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.0	0.25	0.25	(0.0)
olv4*	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)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0

TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

% Regularity

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

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

relative Inform. Technology (IT)

olv3*	1.0	0.523	0.5	(1.0)
olv3*	0.0	0.477	0.5	(0.0)
olv4*	1.0	0.523	0.5	(1.0)
olv4*	0.0	0.477	0.5	(0.0)
olv5*	1.0	0.523	0.5	(1.0)
olv5*	0.0	0.477	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	86.33	12.27	5.85
LAB*LAB	86.33	12.27	5.85
LAB*LAB	86.33	12.27	5.85

relative Inform. Technology (IT)

olv3*	0.75	0.273	0.25	(1.0)
olv3*	0.0	0.727	0.25	(0.0)
olv4*	1.0	0.523	0.5	(1.0)
olv4*	0.0	0.477	0.5	(0.0)
olv5*	1.0	0.523	0.5	(1.0)
olv5*	0.0	0.477	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	86.33	12.27	5.85
LAB*LAB	86.33	12.27	5.85
LAB*LAB	86.33	12.27	5.85

relative Inform. Technology (IT)

olv3*	0.75	0.273	0.25	(1.0)
olv3*	0.0	0.727	0.25	(0.0)
olv4*	1.0	0.523	0.5	(1.0)
olv4*	0.0	0.477	0.5	(0.0)
olv5*	1.0	0.523	0.5	(1.0)
olv5*	0.0	0.477	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	86.33	12.27	5.85
LAB*LAB	86.33	12.27	5.85
LAB*LAB	86.33	12.27	5.85

relative Inform. Technology (IT)

olv3*	0.75	0.273	0.25	(1.0)
olv3*	0.0	0.727	0.25	(0.0)
olv4*	1.0	0.523	0.5	(1.0)
olv4*	0.0	0.477	0.5	(0.0)
olv5*	1.0	0.523	0.5	(1.0)
olv5*	0.0	0.477	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	86.33	12.27	5.85
LAB*LAB	86.33	12.27	5.85
LAB*LAB	86.33	12.27	5.85

relative Inform. Technology (IT)

olv3*	0.75	0.273	0.25	(1.0)
olv3*	0.0	0.727	0.25	(0.0)
olv4*	1.0	0.523	0.5	(1.0)
olv4*	0.0	0.477	0.5	(0.0)
olv5*	1.0	0.523	0.5	(1.0)
olv5*	0.0	0.477	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	86.33	12.27	5.85
LAB*LAB	86.33	12.27	5.85
LAB*LAB	86.33	12.27	5.85

relative Inform. Technology (IT)

olv3*	0.75	0.273	0.25	(1.0)
olv3*	0.0	0.727	0.25	(0.0)
olv4*	1.0	0.523	0.5	(1.0)
olv4*	0.0	0.477	0.5	(0.0)
olv5*	1.0	0.523	0.5	(1.0)
olv5*	0.0	0.477	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	86.33	12.27	5.85
LAB*LAB	86.33	12.27	5.85
LAB*LAB	86.33	12.27	5.85

relative Inform. Technology (IT)

olv3*	0.75	0.273	0.25	(1.0)
olv3*	0.0	0.727	0.25	(0.0)
olv4*	1.0	0.523	0.5	(1.0)
olv4*	0.0	0.477	0.5	(0.0)
olv5*	1.0	0.523	0.5	(1.0)
olv5*	0.0	0.477	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	86.33	12.27	5.85
LAB*LAB	86.33	12.27	5.85
LAB*LAB	86.33	12.27	5.85

relative Inform. Technology (IT)

olv3*	0.75	0.273	0.25	(1.0)
olv3*	0.0	0.727	0.25	(0.0)
olv4*	1.0	0.523	0.5	(1.0)
olv4*	0.0	0.477	0.5	(0.0)
olv5*	1.0	0.523	0.5	(1.0)
olv5*	0.0	0.477	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	86.33	12.27	5.85
LAB*LAB	86.33	12.27	5.85
LAB*LAB	86.33	12.27	5.85

relative Inform. Technology (IT)

olv3*	0.75	0.273	0.25	(1.0)
olv3*	0.0	0.727	0.25	(0.0)
olv4*	1.0	0.523	0.5	(1.0)
olv4*	0.0	0.477	0.5	(0.0)
olv5*	1.0	0.523	0.5	(1.0)
olv5*	0.0	0.477	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	86.33	12.27	5.85
LAB*LAB	86.33	12.27	5.85
LAB*LAB	86.33	12.27	5.85

Output: Colorimetric Television Luminous System TLS00

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

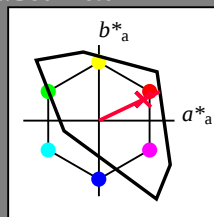
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 52 89 25

olv*Ma: 1.0 0.0 0.21

triangle lightness t^*



% Gamut

$u^*_{rel} = 158$

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	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 Inform. Technology (IT)

olv3*	1.0	0.75	0.803	(1.0)
olv3*	0.0	0.25	0.197	(0.0)
olv4*	1.0	0.75	0.803	(1.0)
olv4*	0.0	0.25	0.197	(0.0)
olv5*	1.0	0.75	0.803	(1.0)
olv5*	0.0	0.25	0.197	(0.0)

standard and adapted CIELAB

LAB*LAB	84.54	20.15	9.6
LAB*LAB	84.54	20.15	9.6
LAB*LAB	84.54	20.15	9.6

LAB*ICHd				67.5	22.32	23.47
relative CIELAB lab*						
lab*lab	0.886	0.226	0.107			
lab*tch	0.875	0.25	0.071			
lab*ncb	0.0	0.25	0.071			
relative Natural Colour (NC)						
lab*Iri	0.886	0.25	0.0			
lab*tce	0.875	0.25	1.0			
lab*nce	0.0	0.25	b99r			

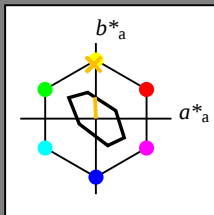
Input: Colorimetric Television Luminous System TLS70

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

lab^*tch and lab^*nch

D65: hue J
LCH*Ma: 89 28 92
olv*Ma: 1.0 0.74 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 99.99 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*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 88.98 0.0 0.0
LAB*LABa 88.98 0.0 0.0
LAB*LABb 75.00 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*trj 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 82.56 0.0 0.0
LAB*LABa 82.56 0.0 0.0
LAB*LABb 50.00 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*trj 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 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.13 0.0 0.0
LAB*LABa 76.13 0.0 0.0
LAB*LABb 25.00 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*trj 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 69.10 0.0 0.0
LAB*LABa 69.10 0.0 0.0
LAB*LABb 0.00 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*trj 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 69.10 0.0 0.0
LAB*LABa 69.10 0.0 0.0
LAB*LABb 0.00 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*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

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

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

relative Inform. Technology (IT)
olv3* 1.0 0.87 0.5 (1.0)
cmyn3* 0.0 0.13 0.0 (0.0)
olv4* 1.0 0.87 0.5 (1.0)
cmyn4* 0.0 0.13 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 93.9 -0.28 7.09
LAB*LABa 93.9 -0.28 7.09
LAB*LABb 97.5 -1.1 92.33

relative CIELAB lab*
lab*lab 0.941 0.0 0.25
lab*tch 0.875 0.25 0.256
lab*nch 0.0 0.25 0.256
relative Natural Colour (NC)
lab*trj 0.941 0.0 0.25
lab*tce 0.875 0.25 0.256
lab*nce 0.0 0.25 0.256

relative Inform. Technology (IT)
olv3* 0.75 0.62 0.25 (1.0)
cmyn3* 0.25 0.38 0.75 (0.0)
olv4* 1.0 0.935 0.75 (1.0)
cmyn4* 0.0 0.065 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 87.48 -0.28 7.09
LAB*LABa 87.48 -0.28 7.09
LAB*LABb 82.5 7.1 92.31

relative CIELAB lab*
lab*lab 0.691 0.0 0.25
lab*tch 0.625 0.25 0.256
lab*nch 0.0 0.25 0.256
relative Natural Colour (NC)
lab*trj 0.691 0.0 0.25
lab*tce 0.625 0.25 0.256
lab*nce 0.0 0.25 0.256

relative Inform. Technology (IT)
olv3* 0.5 0.435 0.25 (1.0)
cmyn3* 0.5 0.565 0.75 (0.0)
olv4* 1.0 0.935 0.75 (1.0)
cmyn4* 0.0 0.065 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 81.05 -0.28 7.09
LAB*LABa 81.05 -0.28 7.09
LAB*LABb 76.13 7.1 92.31

relative CIELAB lab*
lab*lab 0.441 -0.009 0.25
lab*tch 0.375 0.25 0.256
lab*nch 0.0 0.25 0.256
relative Natural Colour (NC)
lab*trj 0.441 0.0 0.25
lab*tce 0.375 0.25 0.256
lab*nce 0.0 0.25 0.256

relative Inform. Technology (IT)
olv3* 0.25 0.37 0.0 (1.0)
cmyn3* 0.5 0.63 0.0 (0.0)
olv4* 1.0 0.87 0.5 (1.0)
cmyn4* 0.0 0.13 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 79.54 -0.56 14.19
LAB*LABa 79.54 -0.56 14.19
LAB*LABb 50.0 14.2 92.31

relative CIELAB lab*
lab*lab 0.383 -0.019 0.499
lab*tch 0.25 0.5 0.256
lab*nch 0.0 0.25 0.256
relative Natural Colour (NC)
lab*trj 0.383 0.0 0.5
lab*tce 0.25 0.5 0.256
lab*nce 0.0 0.25 0.256

relative Inform. Technology (IT)
olv3* 0.0 0.37 0.0 (1.0)
cmyn3* 0.5 0.63 0.0 (0.0)
olv4* 1.0 0.87 0.5 (1.0)
cmyn4* 0.0 0.13 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 79.54 -0.56 14.19
LAB*LABa 79.54 -0.56 14.19
LAB*LABb 50.0 14.2 92.31

relative CIELAB lab*
lab*lab 0.383 -0.019 0.499
lab*tch 0.25 0.5 0.256
lab*nch 0.0 0.25 0.256
relative Natural Colour (NC)
lab*trj 0.383 0.0 0.5
lab*tce 0.25 0.5 0.256
lab*nce 0.0 0.25 0.256

relative Inform. Technology (IT)
olv3* 1.0 0.805 0.25 (1.0)
cmyn3* 0.0 0.195 0.75 (0.0)
olv4* 1.0 0.805 0.25 (1.0)
cmyn4* 0.0 0.195 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 90.89 -0.85 21.28
LAB*LABa 90.89 -0.85 21.28
LAB*LABb 62.5 21.3 92.32

relative CIELAB lab*
lab*lab 0.883 0.0 0.5
lab*tch 0.75 0.5 0.25
lab*nch 0.0 0.5 0.25
relative Natural Colour (NC)
lab*trj 0.883 0.0 0.5
lab*tce 0.75 0.5 0.25
lab*nce 0.0 0.5 0.25

relative Inform. Technology (IT)
olv3* 1.0 0.74 0.0 (1.0)
cmyn3* 0.0 0.26 1.0 (0.0)
olv4* 1.0 0.74 0.0 (1.0)
cmyn4* 0.0 0.26 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 89.38 -1.14 28.37
LAB*LABa 89.38 -1.14 28.37
LAB*LABb 50.0 28.4 92.32

relative CIELAB lab*
lab*lab 0.768 -0.039 0.999
lab*tch 0.5 1.0 0.256
lab*nch 0.0 1.0 0.256
relative Natural Colour (NC)
lab*trj 0.768 0.0 1.0
lab*tce 0.5 1.0 0.256
lab*nce 0.0 1.0 0.256

relative Inform. Technology (IT)
olv3* 0.5 0.55 0.0 (1.0)
cmyn3* 0.25 0.44 1.0 (0.0)
olv4* 1.0 0.805 0.25 (1.0)
cmyn4* 0.0 0.195 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 84.46 -0.85 21.28
LAB*LABa 84.46 -0.85 21.28
LAB*LABb 37.51 21.3 92.31

relative CIELAB lab*
lab*lab 0.574 -0.029 0.749
lab*tch 0.375 0.75 0.256
lab*nch 0.0 0.75 0.256
relative Natural Colour (NC)
lab*trj 0.574 0.0 0.75
lab*tce 0.375 0.75 0.256
lab*nce 0.0 0.75 0.256

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 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*LABb 25.0 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*trj 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 69.10 0.0 0.0
LAB*LABa 69.10 0.0 0.0
LAB*LABb 0.00 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*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

blackness $n^* = 0.00$

blackness $n^* = 0.25$

blackness $n^* = 0.50$

blackness $n^* = 1.0$

blackness $n^* = 1.0$

blackness $n^* = 1.0$

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 99.99 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*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 88.98 0.0 0.0
LAB*LABa 88.98 0.0 0.0
LAB*LABb 75.00 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*trj 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 82.56 0.0 0.0
LAB*LABa 82.56 0.0 0.0
LAB*LABb 50.00 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*trj 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 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.13 0.0 0.0
LAB*LABa 76.13 0.0 0.0
LAB*LABb 25.00 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*trj 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 69.10 0.0 0.0
LAB*LABa 69.10 0.0 0.0
LAB*LABb 0.00 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*trj 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 69.10 0.0 0.0
LAB*LABa 69.10 0.0 0.0
LAB*LABb 0.00 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*trj 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 69.10 0.0 0.0
LAB*LABa 69.10 0.0 0.0
LAB*LABb 0.00 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*trj 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 69.10 0.0 0.0
LAB*LABa 69.10 0.0 0.0
LAB*LABb 0.00 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*trj 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 69.10 0.0 0.0
LAB*LABa 69.10 0.0 0.0
LAB*LABb 0.00 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*trj 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 69.10 0.0 0.0
LAB*LABa 69.10 0.0 0.0
LAB*LABb 0.00 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*trj 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 69.10 0.0 0.0
LAB*LABa 69.10 0.0 0.0
LAB*LABb 0.00 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*trj 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 69.10 0.0 0.0
LAB*LABa 69.10 0.0 0.0
LAB*LABb 0.00 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*trj 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 69.10 0.0 0.0
LAB*LABa 69.10 0.0 0.0
LAB*LABb 0.00 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*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*n

Input: Colorimetric Television Luminous System TLS70

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

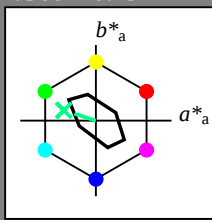
$lab \cdot tch$ and $lab \cdot nch$

D65: hue G

LCH*Ma: 90 30 162

olv*Ma: 0.0 1.0 0.53

triangle lightness t^*



TLS70; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

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

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

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

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

Input: Colorimetric Television Luminous System TLS70

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

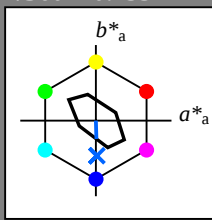
$lab \cdot tch$ and $lab \cdot nch$

D65: hue B

LCH*Ma: 80 24 272

olv*Ma: 0.0 0.4 1.0

triangle lightness t^*



TLS70; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RC _{IE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
BC _{IE}	30.57	1.41	-46.46	46.49	272

%Regularity

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

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

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)

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 Inform. Technology (IT)

olv3*	0.75	0.85	1.0	(1.0)
olv3*	0.25	0.15	0.0	(0.0)
olv4*	0.75	0.85	1.0	(1.0)
olv4*	0.25	0.15	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	91.46	0.18	-6.05
LAB*LAB	91.46	0.18	-6.05
LAB*LAB	91.46	0.18	-6.05

relative Inform. Technology (IT)

olv3*	0.5	0.69	1.0	(1.0)
olv3*	0.5	0.31	0.0	(0.0)
olv4*	0.5	0.69	1.0	(1.0)
olv4*	0.5	0.31	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12

relative Inform. Technology (IT)

olv3*	0.25	0.44	0.75	(1.0)
olv3*	0.25	0.25	0.0	(0.0)
olv4*	0.25	0.44	0.75	(1.0)
olv4*	0.25	0.25	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12

relative Inform. Technology (IT)

olv3*	0.0	0.29	0.75	(1.0)
olv3*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)

standard and adapted CIELAB

LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12

relative Inform. Technology (IT)

olv3*	0.0	0.29	0.75	(1.0)
olv3*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)

standard and adapted CIELAB

LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12

relative Inform. Technology (IT)

olv3*	0.0	0.29	0.75	(1.0)
olv3*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)

standard and adapted CIELAB

LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12

relative Inform. Technology (IT)

olv3*	0.0	0.29	0.75	(1.0)
olv3*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)

standard and adapted CIELAB

LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12

relative Inform. Technology (IT)

olv3*	0.0	0.29	0.75	(1.0)
olv3*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)

standard and adapted CIELAB

LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12

relative Inform. Technology (IT)

olv3*	0.0	0.29	0.75	(1.0)
olv3*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)

standard and adapted CIELAB

LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(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)

standard and adapted CIELAB

LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	0.85	1.0	(1.0)
olv3*	0.25	0.15	0.0	(0.0)
olv4*	0.75	0.85	1.0	(1.0)
olv4*	0.25	0.15	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	91.46	0.18	-6.05
LAB*LAB	91.46	0.18	-6.05
LAB*LAB	91.46	0.18	-6.05

relative Inform. Technology (IT)

olv3*	0.5	0.69	1.0	(1.0)
olv3*	0.5	0.31	0.0	(0.0)
olv4*	0.5	0.69	1.0	(1.0)
olv4*	0.5	0.31	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12

relative Inform. Technology (IT)

olv3*	0.25	0.44	0.75	(1.0)
olv3*	0.25	0.25	0.0	(0.0)
olv4*	0.25	0.44	0.75	(1.0)
olv4*	0.25	0.25	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12

relative Inform. Technology (IT)

olv3*	0.0	0.29	0.75	(1.0)
olv3*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)

standard and adapted CIELAB

LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12

relative Inform. Technology (IT)

olv3*	0.0	0.29	0.75	(1.0)
olv3*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)

standard and adapted CIELAB

LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12

relative Inform. Technology (IT)

olv3*	0.0	0.29	0.75	(1.0)
olv3*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)

standard and adapted CIELAB

LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12

relative Inform. Technology (IT)

olv3*	0.0	0.29	0.75	(1.0)
olv3*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)

standard and adapted CIELAB

LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12

relative Inform. Technology (IT)

olv3*	0.0	0.29	0.75	(1.0)
olv3*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)

standard and adapted CIELAB

LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12

relative Inform. Technology (IT)

olv3*	0.0	0.29	0.75	(1.0)
olv3*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)

standard and adapted CIELAB

LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(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)

standard and adapted CIELAB

LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	0.85	1.0	(1.0)
olv3*	0.25	0.15	0.0	(0.0)
olv4*	0.75	0.85	1.0	(1.0)
olv4*	0.25	0.15	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	91.46	0.18	-6.05
LAB*LAB	91.46	0.18	-6.05
LAB*LAB	91.46	0.18	-6.05

relative Inform. Technology (IT)

olv3*	0.5	0.69	1.0	(1.0)
olv3*	0.5	0.31	0.0	(0.0)
olv4*	0.5	0.69	1.0	(1.0)
olv4*	0.5	0.31	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12

relative Inform. Technology (IT)

olv3*	0.25	0.44	0.75	(1.0)
olv3*	0.25	0.25	0.0	(0.0)
olv4*	0.25	0.44	0.75	(1.0)
olv4*	0.25	0.25	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12

relative Inform. Technology (IT)

olv3*	0.0	0.29	0.75	(1.0)
olv3*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)

standard and adapted CIELAB

LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12

relative Inform. Technology (IT)

olv3*	0.0	0.29	0.75	(1.0)
olv3*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)
olv4*	0.0	0.29	0.75	(1.0)

standard and adapted CIELAB

LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12
LAB*LAB	87.5	0.37	-12.12

relative Inform. Technology (IT)				
olv3*	0.5	0.653	0.75	(1.0)
cmyn3*	0.5	0.347	0.25	(0.0)
olv4*	0.75	0.903	1.0	0.75
cmyn4*	0.25	0.097	0.0	0.25
standard and adapted CIELAB				
LAB*LAB	63.92	0.37	-12.15	
LAB*LABa	63.92	0.37	-12.15	
LAB*TCHa	62.5	12.17	271.74	