

output: *no change compared to input*

BAM material: code=rh4ta

	L	V
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www.ps.bam.de/OE59/10L/L59E03NP.PS/.PDF; start output
 N: No Output Linearization (OL) data in File (F), Startup (S) or Device (D)

Input: Colorimetric Television Luminous System TLS70

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

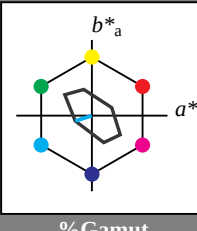
$lab \cdot tch$ and $lab \cdot nch$

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*	olv4*	olv5*	olv6*	olv7*
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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

OE59-7, 5 step scales for constant CIELAB hue 198/360 = 0.55 (left)

5 step scales for constant CIELAB hue 198/360 = 0.55 (right)

BAM-test chart OE59; Colorimetric systems TLS70 & TLS70

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

input: $cmY0^* setcmykcolor$

output: no change compared to input

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 294/360 = 0.816$

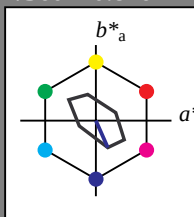
lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 72 39 294

olv*Ma: 0.0 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
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

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

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

$u^*_{rel} = 16$

relative Inform. Technology (IT)

olv3* 1.0 1.0 1.0 (1.0)

cmyn3* 0.0 0.0 0.0 (0.0)

olv4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 95.41 0.0 0.0

LAB*LAB 95.41 0.0 0.0

LAB*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*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*trc 1.0 0.0 0.0

lab*ncc 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*LAB 88.98 0.0 0.0

LAB*LAB 88.98 0.0 0.0

LAB*LAB 88.98 0.0 0.0

relative CIELAB lab*

lab*lab 0.75 0.75 0.75

lab*tch 0.75 0.75 0.75

lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.75 0.75 0.75

lab*trc 0.75 0.75 0.75

lab*ncc 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 88.98 0.0 0.0

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 CIELAB lab*

lab*lab 0.5 0.5 0.5

lab*tch 0.5 0.5 0.5

lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.5 0.5 0.5

lab*trc 0.5 0.5 0.5

lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)

olv3* 0.25 0.25 0.25 (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*LAB 88.98 0.0 0.0

LAB*LAB 88.98 0.0 0.0

LAB*LAB 88.98 0.0 0.0

relative CIELAB lab*

lab*lab 0.25 0.25 0.25

lab*tch 0.25 0.25 0.25

lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.25 0.25 0.25

lab*trc 0.25 0.25 0.25

lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)

olv3* 0.0 0.0 0.0 (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 88.98 0.0 0.0

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 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*trc 0.0 0.0 0.0

lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)

olv3* 0.0 0.0 0.0 (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 88.98 0.0 0.0

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 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*trc 0.0 0.0 0.0

lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)

olv3* 0.0 0.0 0.0 (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 88.98 0.0 0.0

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 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*trc 0.0 0.0 0.0

lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)

olv3* 0.0 0.0 0.0 (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 88.98 0.0 0.0

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 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*trc 0.0 0.0 0.0

lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)

olv3* 0.0 0.0 0.0 (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 88.98 0.0 0.0

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 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*trc 0.0 0.0 0.0

lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)

olv3* 0.0 0.0 0.0 (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 88.98 0.0 0.0

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 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*trc 0.0 0.0 0.0

lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)

olv3* 0.0 0.0 0.0 (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 88.98 0.0 0.0

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 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*trc 0.0 0.0 0.0

lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)

olv3* 0.0 0.0 0.0 (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 88.98 0.0 0.0

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 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*trc 0.0 0.0 0.0

lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)

olv3* 0.0 0.0 0.0 (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)

Input: Colorimetric Television Luminous System TLS70

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

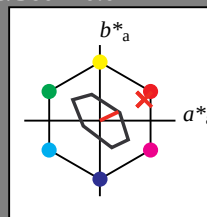
$lab \cdot tch$ and $lab \cdot nch$

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)

olvi3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
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 Inform. Technology (IT)

olvi3*	1.0	0.762	0.75	(1.0)
cmyn3*	0.0	0.238	0.25	(0.0)
olvi4*	1.0	0.762	0.75	(1.0)
cmyn4*	0.0	0.238	0.25	(0.0)
LAB*LAB	90.87	6.13	2.92	
LAB*LABa	90.87	6.13	2.92	
LAB*TCHa	97.5	6.79	25.48	

relative Inform. Technology (IT)

olvi3*	1.0	0.523	0.5	(1.0)
cmyn3*	0.0	0.477	0.5	(0.0)
olvi4*	1.0	0.523	0.5	(1.0)
cmyn4*	0.0	0.477	0.5	(0.0)
LAB*LAB	86.33	12.27	5.85	
LAB*LABa	86.33	12.27	5.85	
LAB*TCHa	75.0	13.59	25.48	

relative Inform. Technology (IT)

olvi3*	1.0	0.285	0.25	(1.0)
cmyn3*	0.0	0.715	0.25	(0.0)
olvi4*	1.0	0.285	0.25	(1.0)
cmyn4*	0.0	0.715	0.25	(0.0)
LAB*LAB	81.79	18.4	8.77	
LAB*LABa	81.79	18.4	8.77	
LAB*TCHa	62.5	20.39	25.48	

relative Inform. Technology (IT)

olvi3*	1.0	0.047	0.0	(1.0)
cmyn3*	0.0	0.953	0.0	(0.0)
olvi4*	1.0	0.047	0.0	(1.0)
cmyn4*	0.0	0.953	0.0	(0.0)
LAB*LAB	77.25	24.54	11.69	
LAB*LABa	77.25	24.54	11.69	
LAB*TCHa	50.0	27.18	25.47	

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	88.98	0.0	0.0	
LAB*LABa	88.98	0.0	0.0	
LAB*TCHa	75.0	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.75	0.512	0.5	(1.0)
cmyn3*	0.25	0.488	0.5	(0.0)
olvi4*	1.0	0.762	0.75	(1.0)
cmyn4*	0.0	0.238	0.25	(0.0)
LAB*LAB	84.44	6.14	2.92	
LAB*LABa	84.44	6.14	2.92	
LAB*TCHa	62.5	6.8	25.48	

relative Inform. Technology (IT)

olvi3*	0.75	0.272	0.75	(1.0)
cmyn3*	0.25	0.727	0.75	(0.0)
olvi4*	1.0	0.523	0.5	(1.0)
cmyn4*	0.0	0.477	0.5	(0.0)
LAB*LAB	79.9	12.27	5.85	
LAB*LABa	79.9	12.27	5.85	
LAB*TCHa	50.0	13.59	25.48	

relative Inform. Technology (IT)

olvi3*	0.75	0.035	0.0	(1.0)
cmyn3*	0.25	0.965	1.0	(0.0)
olvi4*	1.0	0.285	0.25	(1.0)
cmyn4*	0.0	0.715	0.25	(0.0)
LAB*LAB	75.36	18.41	8.77	
LAB*LABa	75.36	18.41	8.77	
LAB*TCHa	37.51	20.39	25.47	

relative Inform. Technology (IT)

olvi3*	0.75	0.003	0.0	(1.0)
cmyn3*	0.25	0.997	1.0	(0.0)
olvi4*	1.0	0.047	0.0	(1.0)
cmyn4*	0.0	0.953	0.0	(0.0)
LAB*LAB	72.54	24.54	11.69	
LAB*LABa	72.54	24.54	11.69	
LAB*TCHa	25.0	27.18	25.47	

relative Inform. Technology (IT)

olvi3*	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	82.56	0.0	0.0	
LAB*LABa	82.56	0.0	0.0	
LAB*TCHa	50.0	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.5	0.262	0.25	(1.0)
cmyn3*	0.5	0.738	0.75	(0.0)
olvi4*	1.0	0.762	0.75	(1.0)
cmyn4*	0.0	0.238	0.25	(0.0)
LAB*LAB	78.01	6.14	2.92	
LAB*LABa	78.01	6.14	2.92	
LAB*TCHa	37.5	6.8	25.48	

relative Inform. Technology (IT)

olvi3*	0.5	0.023	0.0	(1.0)
cmyn3*	0.5	0.977	1.0	(0.0)
olvi4*	1.0	0.523	0.5	(1.0)
cmyn4*	0.0	0.477	0.5	(0.0)
LAB*LAB	73.47	12.27	5.84	
LAB*LABa	73.47	12.27	5.84	
LAB*TCHa	25.01	13.59	25.46	

relative Inform. Technology (IT)

olvi3*	0.5	0.003	0.0	(1.0)
cmyn3*	0.5	0.997	1.0	(0.0)
olvi4*	1.0	0.047	0.0	(1.0)
cmyn4*	0.0	0.953	0.0	(0.0)
LAB*LAB	70.0	24.54	11.69	
LAB*LABa	70.0	24.54	11.69	
LAB*TCHa	25.0	27.18	25.47	

relative Inform. Technology (IT)

olvi3*	0.5	0.003	0.0	(1.0)
cmyn3*	0.5	0.997	1.0	(0.0)
olvi4*	1.0	0.047	0.0	(1.0)
cmyn4*	0.0	0.953	0.0	(0.0)
LAB*LAB	69.0	24.54	11.69	
LAB*LABa	69.0	24.54	11.69	
LAB*TCHa	25.0	27.18	25.47	

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	76.13	5.14	0.0	
LAB*LABa	76.13	5.14	0.0	
LAB*TCHa	25.0	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.25	0.323	0.26	(1.0)
cmyn3*	0.75	0.677	0.74	(0.0)
olvi4*	1.0	0.375	0.25	(1.0)
cmyn4*	0.0	0.625	0.25	(0.0)
LAB*LAB	73.47	12.27	5.84	
LAB*LABa	73.47	12.27	5.84	
LAB*TCHa	25.01	13.59	25.46	

relative Inform. Technology (IT)

olvi3*	0.25	0.023	0.0	(1.0)
cmyn3*	0.75	0.977	1.0	(0.0)
olvi4*	1.0	0.523	0.5	(1.0)
cmyn4*	0.0	0.477	0.5	(0.0)
LAB*LAB	70.0	24.54	11.69	
LAB*LABa	70.0	24.54	11.69	
LAB*TCHa	25.0	27.18	25.47	

relative Inform. Technology (IT)

olvi3*	0.25	0.003	0.0	(1.0)
cmyn3*	0.75	0.997	1.0	(0.0)
olvi4*	1.0	0.047	0.0	(1.0)
cmyn4*	0.0	0.953	0.0	(0.0)
LAB*LAB	69.0	24.54	11.69	
LAB*LABa	69.0	24.54	11.69	
LAB*TCHa	25.0	27.18	25.47	

relative Inform. Technology (IT)

olvi3*	0.25	0.003	0.0	(1.0)
cmyn3*	0.75	0.997	1.0	(0.0)
olvi4*	1.0	0.047	0.0	(1.0)
cmyn4*	0.0	0.953	0.0	(0.0)
LAB*LAB	68.0	24.54	11.69	
LAB*LABa	68.0	24.54	11.69	
LAB*TCHa	25.0	27.18	25.47	

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	76.13	5.14	0.0	
LAB*LABa	76.13	5.14	0.0	
LAB*TCHa	25.0	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.25	0.323	0.26	(1.0)
cmyn3*	0.75	0.677	0.74	(0.0)
olvi4*	1.0	0.375	0.25	(1.0)
cmyn4*	0.0	0.625	0.25	(0.0)
LAB*LAB	73.47	12.27	5.84	
LAB*LABa	73.47	12.27	5.84	
LAB*TCHa	25.01	13.59	25.46	

relative Inform. Technology (IT)

olvi3*	0.25	0.023	0.0	(1.0)
cmyn3*	0.75	0.977	1.0	(0.0)
olvi4*	1.0	0.523	0.5	(1.0)
cmyn4*	0.0	0.477	0.5	(0.0)
LAB*LAB	70.0	24.54	11.69	
LAB*LABa	70.0	24.54	11.69	
LAB*TCHa	25.0	27.18	25.47	

relative Inform. Technology (IT)

olvi3*	0.25	0.003	0.0	(1.0)
cmyn3*	0.75	0.997	1.0	(0.0)
olvi4*	1.0	0.047	0.0	(1.0)
cmyn4*	0.0	0.953	0.0	(0.0)
LAB*LAB	69.0	24.54	11.69	
LAB*LABa	69.0	24.54	11.69	
LAB*TCHa	25.0	27.18	25.47	

relative Inform. Technology (IT)

olvi3*	0.25	0.003	0.0	(1.0)
cmyn3*	0.75	0.997	1.0	(0.0)
olvi4*	1.0	0.047	0.0	(1.0)
cmyn4*	0.0	0.953	0.0	(0.0)
LAB*LAB	68.0	24.54	11.69	
LAB*LABa	68.0	24.54	11.69	
LAB*TCHa	25.0	27.18	25.47	

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	76.13	5.14	0.0	
LAB*LABa	76.13	5.14	0.0	
LAB*TCHa	25.0	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.25	0.323	0.26	(1.0)
cmyn3*	0.75	0.677	0.74	(0.0)
olvi4*	1.0	0.375	0.25	(1.0)
cmyn4*	0.0	0.625	0.25	(0.0)
LAB*LAB	73.47	12.27	5.84	
LAB*LABa	73.47	12.27	5.84	
LAB*TCHa	25.01	13.59	25.46	

relative Inform. Technology (IT)

olvi3*	0.25	0.023	0.0	(1.0)
cmyn3*	0.75	0.977	1.0	(0.0)
olvi4*	1.0	0.523	0.5	(1.0)
cmyn4*	0.0	0.477	0.5	(0.0)
LAB*LAB	70.0	24.54	11.69	
LAB*LABa	70.0	24.54	11.69	
LAB*TCHa	25.0	27.18	25.47	

relative Inform. Technology (IT)

olvi3*	0.25	0.003	0.0	(1.0)
cmyn3*	0.75	0.997	1.0	(0.0)
olvi4*	1.0	0.047	0.0	(1.0)
cmyn4*	0.0	0.953	0.0	(0.0)
LAB*LAB	69.0	24.54	11.69	
LAB*LABa	69.0	24.54	11.69	
LAB*TCHa	25.0	27.18	25.47	

relative Inform. Technology (IT)

olvi3*	0.25	0.003	0.0	(1.0)
cmyn3*	0.75	0.997	1.0	(0.0)
olvi4*	1.0	0.047	0.0	(1.0)
cmyn4*	0.0	0.953	0.0	(0.0)
LAB*LAB	68.0	24.54	11.69	
LAB*LABa	68.0	24.54	11.69	
LAB*TCHa	25.0	27.18	25.47	

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	76.13	5.14	0.0	
LAB*LABa	76.13	5.14	0.0	
LAB*TCHa	25.0	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.25	0.323	0.26	(1.0)
cmyn3*	0.75	0.677	0.74	(0.0)
olvi4*	1.0	0.375	0.25	(1.0)
cmyn4*	0.0	0.625	0.25	(0.0)
LAB*LAB	73.47	12.27	5.84	
LAB*LABa	73.47	12.27	5.84	
LAB*TCHa	25.01	13.59	25.46	

relative Inform. Technology (IT)

olvi3*</

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Technical information: <http://www.ps.bam.de> Version 2.1, io=0.0

Page count: 8

www.ps.bam.de/OE59/10L/L59E07NP.PS/.PDF; start output
N: No Output Linearization (OL) data in File (F), Startup (S) or Device (D)

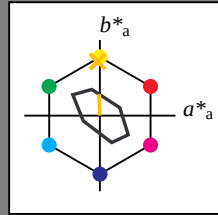
Input: Colorimetric Television Luminous System TLS70

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^*



% Gamut

$u^*_{rel} = 16$

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
cmv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmv4*	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	0.935	0.75	(1.0)
cmv3*	0.0	0.065	0.25	(0.0)
olv4*	1.0	0.935	0.75	(1.0)
cmv4*	0.0	0.065	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	93.9	-0.28	7.09	
LAB*LAB	93.9	-0.28	7.09	
LAB*LAB	93.9	-0.28	7.09	

relative Inform. Technology (IT)

olv3*	0.941	0.0	0.25	
cmv3*	0.875	0.25	0.256	
olv4*	0.941	0.0	0.25	
cmv4*	0.875	0.25	0.256	
standard and adapted CIELAB				
LAB*LAB	92.4	-0.57	14.19	
LAB*LAB	92.4	-0.57	14.19	
LAB*LAB	92.4	-0.57	14.19	

relative Inform. Technology (IT)

olv3*	0.883	-0.019	0.499	
cmv3*	0.75	0.62	0.25	(1.0)
olv4*	1.0	0.875	0.5	(1.0)
cmv4*	0.0	0.135	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	92.4	-0.57	14.19	
LAB*LAB	92.4	-0.57	14.19	
LAB*LAB	92.4	-0.57	14.19	

relative Inform. Technology (IT)

olv3*	1.0	0.805	0.25	(1.0)
cmv3*	0.0	0.195	0.25	(0.0)
olv4*	1.0	0.805	0.25	(1.0)
cmv4*	0.0	0.195	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	90.89	-0.85	21.28	
LAB*LAB	90.89	-0.85	21.28	
LAB*LAB	90.89	-0.85	21.28	

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
cmv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmv4*	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	0.685	0.5	(1.0)
cmv3*	0.25	0.315	0.5	(0.0)
olv4*	1.0	0.935	0.75	(1.0)
cmv4*	0.0	0.065	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	

relative Inform. Technology (IT)

olv3*	0.75	0.685	0.5	(1.0)
cmv3*	0.25	0.315	0.5	(0.0)
olv4*	1.0	0.935	0.75	(1.0)
cmv4*	0.0	0.065	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	

relative Inform. Technology (IT)

olv3*	0.75	0.685	0.5	(1.0)
cmv3*	0.25	0.315	0.5	(0.0)
olv4*	1.0	0.935	0.75	(1.0)
cmv4*	0.0	0.065	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	

relative Inform. Technology (IT)

olv3*	0.75	0.685	0.5	(1.0)
cmv3*	0.25	0.315	0.5	(0.0)
olv4*	1.0	0.935	0.75	(1.0)
cmv4*	0.0	0.065	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	

relative Inform. Technology (IT)

olv3*	0.75	0.685	0.5	(1.0)
cmv3*	0.25	0.315	0.5	(0.0)
olv4*	1.0	0.935	0.75	(1.0)
cmv4*	0.0	0.065	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	

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)
cmv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmv4*	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	

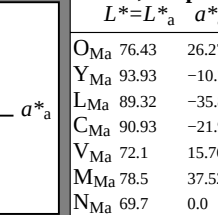
Output: Colorimetric Television Luminous System TLS70

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^*



% Gamut

$u^*_{rel} = 16$

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
cmv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmv4*	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	0.935	0.75	(1.0)
cmv3*	0.0	0.065	0.25	(0.0)
olv4*	1.0	0.935	0.75	(1.0)
cmv4*	0.0	0.065	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	93.9	-0.28	7.09	
LAB*LAB	93.9	-0.28	7.09	
LAB*LAB	93.9	-0.28	7.09	

relative Inform. Technology (IT)

olv3*	0.941	0.0	0.25	
cmv3*	0.875	0.25	0.256	
olv4*	0.941	0.0	0.25	
cmv4*	0.875	0.25	0.256	
standard and adapted CIELAB				
LAB*LAB	92.4	-0.57	14.19	
LAB*LAB	92.4	-0.57	14.19	
LAB*LAB	92.4	-0.57	14.19	

relative Inform. Technology (IT)

olv3*	0.883	-0.019	0.499	
cmv3*	0.75	0.62	0.25	(1.0)
olv4*	1.0	0.875	0.5	(1.0)
cmv4*	0.0	0.135	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	92.4	-0.57	14.19	
LAB*LAB	92.4	-0.57	14.19	
LAB*LAB	92.4	-0.57	14.19	

relative Inform. Technology (IT)

olv3*	1.0	0.805	0.25	(1.0)
cmv3*	0.0	0.195	0.25	(0.0)
olv4*	1.0	0.805	0.25	(1.0)
cmv4*	0.0	0.195	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	90.89	-0.85	21.28	
LAB*LAB	90.89	-0.85	21.28	
LAB*LAB	90.89	-0.85	21.28	

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
cmv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmv4*	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	0.685	0.5	(1.0)
cmv3*	0.25	0.315	0.5	(0.0)
olv4*	1.0	0.935	0.75	(1.0)
cmv4*	0.0	0.065	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	

relative Inform. Technology (IT)

olv3*	0.75	0.685	0.5	(1.0)
cmv3*	0.25	0.315	0.5	(0.0)
olv4*	1.0	0.935	0.75	(1.0)
cmv4*	0.0	0.065	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	

relative Inform. Technology (IT)

olv3*	0.75	0.685	0.5	(1.0)
cmv3*	0.25	0.315	0.5	(0.0)
olv4*	1.0	0.935	0.75	(1.0)
cmv4*	0.0	0.065	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	

relative Inform. Technology (IT)

olv3*	0.75	0.685	0.5	(1.0)
cmv3*	0.25	0.315	0.5	(0.0)
olv4*	1.0	0.935	0.75	(1.0)
cmv4*	0.0	0.065	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	

relative Inform. Technology (IT)

olv3*	0.75	0.685	0.5	(1.0)
cmv3*	0.25	0.315	0.5	(0.0)
olv4*	1.0	0.935	0.75	(1.0)
cmv4*	0.0	0.065	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	

relative Inform. Technology (IT)

olv3*	0.75	0.685	0.5	(1.0)
cmv3*	0.25	0.315	0.5	(0.0)
olv4*	1.0	0.935	0.75	(1.0)
cmv4*	0.0	0.065	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	

relative Inform. Technology (IT)

olv3*	0.75	0.685	0.5	(1.0)
cmv3*	0.25	0.315	0.5	(0.0)
olv4*	1.0	0.935	0.75	(1.0)
cmv4*	0.0	0.065	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	

relative Inform. Technology (IT)

olv3*	0.75	0.685	0.5	(1.0)
cmv3*	0.25	0.315	0.5	(0.0)
olv4*	1.0	0.935	0.75	(1.0)
cmv4*	0.0	0.065	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	
LAB*LAB	87.48	-0.28	7.09	

0.5	0.256		
0.5	0.256		
hour (NC)			
0.0	0.5		
0.5	0.25		
0.5	j00g		

relative Inform. Tech.	
olv3*	1.0 0.803
cmv3*	0.0 0.197
olv4*	1.0 0.803
cmv4*	0.0 0.197
standard and adapted	
LAB*LAB	90.89
LAB*LABa	90.89
