

Input: Colorimetric Television Luminous System TLS18

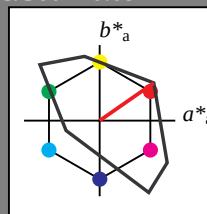
for hue $h^* = lab \cdot h = 35/360 = 0.097$

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

D65: hue O
LCH*Ma: 53 87 35
olv*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut
 $u^*_{rel} = 118$

TLS18; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
N _{Ma}	18.01	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

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

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

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	1.0
olvi3*	0.0	0.0	0.0	0.0	0.0
olvi4*	1.0	1.0	1.0	1.0	1.0
olvi4*	0.0	0.0	0.0	0.0	0.0
olvi5*	1.0	1.0	1.0	1.0	1.0
olvi5*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	95.41	-0.98	4.75		
LAB*LAB	95.41	0.0	0.0		
LAB*TCha	98.99	0.01	0.0		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*lab	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
lab*trj	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*lab	1.0	0.0	0.0		
lab*lab	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
lab*trj	1.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	1.0	1.0
olvi3*	0.25	0.25	0.25	0.0	0.0
olvi4*	1.0	1.0	1.0	1.0	1.0
olvi4*	0.0	0.0	0.0	0.0	0.0
olvi5*	1.0	1.0	1.0	1.0	1.0
olvi5*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	76.06	-0.61	3.44		
LAB*LAB	76.06	0.0	0.0		
LAB*TCha	75.0	0.01	0.0		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*lab	0.75	0.0	0.0		
lab*nch	0.25	0.0	0.0		
lab*trj	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*lab	0.75	0.0	0.0		
lab*lab	0.75	0.0	0.0		
lab*nch	0.25	0.0	0.0		
lab*trj	1.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	1.0	1.0
olvi3*	0.25	0.25	0.25	0.0	0.0
olvi4*	1.0	1.0	1.0	1.0	1.0
olvi4*	0.0	0.0	0.0	0.0	0.0
olvi5*	1.0	1.0	1.0	1.0	1.0
olvi5*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	56.71	0.24	2.14		
LAB*LAB	56.71	0.0	0.0		
LAB*TCha	50.0	0.01	0.0		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*lab	0.5	0.0	0.0		
lab*nch	0.25	0.0	0.0		
lab*trj	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*lab	0.5	0.0	0.0		
lab*lab	0.5	0.0	0.0		
lab*nch	0.25	0.0	0.0		
lab*trj	1.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	1.0	1.0
olvi3*	0.75	0.75	0.75	0.0	0.0
olvi4*	1.0	1.0	1.0	1.0	1.0
olvi4*	0.0	0.0	0.0	0.0	0.0
olvi5*	1.0	1.0	1.0	1.0	1.0
olvi5*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	37.36	0.13	0.83		
LAB*LAB	37.36	0.0	0.0		
LAB*TCha	25.0	0.01	0.0		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*lab	0.25	0.0	0.0		
lab*nch	0.75	0.0	0.0		
lab*trj	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*lab	0.25	0.0	0.0		
lab*lab	0.25	0.0	0.0		
lab*nch	0.75	0.0	0.0		
lab*trj	1.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	1.0	1.0
olvi3*	1.0	1.0	1.0	0.0	0.0
olvi4*	1.0	1.0	1.0	1.0	1.0
olvi4*	0.0	0.0	0.0	0.0	0.0
olvi5*	1.0	1.0	1.0	1.0	1.0
olvi5*	0.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	18.02	0.5	0.47		
LAB*LAB	18.02	0.0	0.0		
LAB*TCha	0.01	0.01	0.0		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*lab	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
lab*trj	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*lab	0.0	0.0	0.0		
lab*lab	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
lab*trj	1.0	0.0	0.0		

$n^* = 1,0$

OE460-7, 5 step scales for constant CIELAB hue 35/360 = 0.097 (left)



BAM-test chart OE46; Colorimetric systems TLS18 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Offset Reflective System ORS18

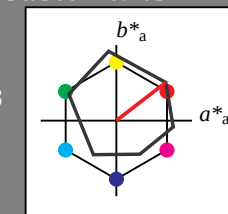
for hue $h^* = lab \cdot h = 38/360 = 0.105$

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

D65: hue O
LCH*Ma: 48 83 38
olv*Ma: 1.0 0.0 0.0

triangle lightness

1,00



% Gamut
 $u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

% Regularity

$g^*_{H,rel} = 57$

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

relative Inform. Technology (IT)					
olvi3*	1.0	0.75	0.75	1.0	1.0
olvi3*	0.0	0.25	0.25	0.0	0.0
olvi4*	1.0	0.75	0.75	1.0	1.0
olvi4*	0.0	0.25	0.25	0.0	0.0
olvi5*	1.0	0.75	0.75	1.0	1.0
olvi5*	0.0	0.25	0.25	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	83.54	15.58	16.58		
LAB*LAB	83.54	16.34	12.62		
LAB*TCha	87.5	16.65	37.69		
relative CIELAB lab*					
lab*lab	0.847	0.198	0.153		
lab*lab	0.875	0.25	0.105		
lab*nch	0.0	0.25	0.105		
lab*trj	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*lab	0.847	0.238	0.075		
lab*lab	0.875	0.25	0.048		
lab*nch	0.0	0.25	0.191		

relative Inform. Technology (IT)					
olvi3*	0.75	0.5	0.5	1.0	1.0
olvi3*	0.25	0.5	0.5	0.0	0.0
olvi4*	1.0	0.75	0.75	1.0	1.0
olvi4*	0.0	0.25	0.25	0.0	0.0
olvi5*	1.0	0.75	0.75	1.0	1.0
olvi5*	0.0	0.25	0.25	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	64.19	15.96	15.28		
LAB*LAB	64.19	16.35	12.63		
LAB*TCha	62.5	20.66	37.69		
relative CIELAB lab*					
lab*lab	0.597	0.198	0.153		
lab*lab	0.625	0.25	0.105		
lab*nch	0.0	0.25	0.105		
lab*trj	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*lab	0.597	0.239	0.075		
lab*lab	0.625	0.25	0.048		
lab*nch	0.0	0.25	0.191		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	1.0	1.0
olvi3*	0.25	0.5	0.5	0.0	0.0
olvi4*	1.0	0.75	0.75	1.0	1.0
olvi4*	0.0	0.25	0.25	0.0	0.0
olvi5*	1.0	0.75	0.75	1.0	1.0
olvi5*	0.0	0.25	0.25	0.0	0.0
standard and adapted CIELAB					
LAB*LAB	44.84	16.33	13.97		
LAB*LAB	44.84	16.35	12.63		
LAB*TCha	37.5	20.66	37.69		
relative CIELAB lab*					
lab*lab	0.347	0.198	0.153		
lab*lab	0.375	0.25	0.105		
lab*nch	0.0	0.25	0.105		
lab*trj	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*lab	0.347	0.239	0.075		
lab*lab	0.375	0.25	0.048		
lab*nch	0.0	0.25	0.191		

relative Inform. Technology (IT)					
olvi3*	0.25	0.0	0.0	1.0	1.0
olvi3*	0.75	0.0	0.0	0.0	0.0
olvi4*	1.0	0.75	0.75	1.0	1.0
olvi4*	0.0	0.25	0.25	0.0	0.0
olvi5*	1.0	0.75	0.75	1.0	1.0
olvi5*	0.0	0.25	0.25	0.0	0.0

Input: Colorimetric Television Luminous System TLS18

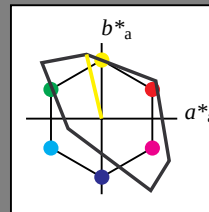
for hue $h^* = lab \cdot h = 103/360 = 0.287$

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

D65: hue Y
LCH*Ma: 93 87 103
olv*Ma: 1.0 1.0 0.0

triangle lightness

1,00



TLS18; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
N _{Ma}	18.01	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

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

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

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB					
LAB*LAB	95.41	-0.98	4.75		
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		
lab*trj	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tch	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	0.75	
cmyn4*	0.0	0.0	0.0	0.25	
standard and adapted CIELAB					
LAB*LAB	76.06	-0.61	3.44		
LAB*Lab	76.06	0.0	0.0		
LAB*Lab	76.06	0.01	0.0		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	0.0		
lab*nch	0.25	0.0	0.0		
lab*trj	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tch	0.75	0.0	0.0		
lab*nch	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	1.0	1.0	1.0	0.5	
cmyn4*	0.0	0.0	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	56.71	-0.24	2.14		
LAB*Lab	56.71	0.0	0.0		
LAB*Lab	56.71	0.01	0.0		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		
lab*trj	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tch	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.33	0.33	0.33	(1.0)	
cmyn3*	0.33	0.33	0.33	(0.0)	
olvi4*	1.0	1.0	1.0	0.33	
cmyn4*	0.0	0.0	0.0	0.33	
standard and adapted CIELAB					
LAB*LAB	37.36	-0.13	0.83		
LAB*Lab	37.36	0.0	0.0		
LAB*Lab	37.36	0.01	0.0		
relative CIELAB lab*					
lab*lab	0.33	0.0	0.0		
lab*tch	0.33	0.0	0.0		
lab*nch	0.33	0.0	0.0		
lab*trj	0.33	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.33	0.0	0.0		
lab*tch	0.33	0.0	0.0		
lab*nch	0.33	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	0.25	
cmyn4*	0.0	0.0	0.0	0.25	
standard and adapted CIELAB					
LAB*LAB	25.0	0.0	0.0		
LAB*Lab	25.0	0.0	0.0		
LAB*Lab	25.0	0.01	0.0		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	0.0		
lab*nch	0.25	0.0	0.0		
lab*trj	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tch	0.25	0.0	0.0		
lab*nch	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.167	0.167	0.167	(1.0)	
cmyn3*	0.167	0.167	0.167	(0.0)	
olvi4*	1.0	1.0	1.0	0.167	
cmyn4*	0.0	0.0	0.0	0.167	
standard and adapted CIELAB					
LAB*LAB	18.02	0.0	0.0		
LAB*Lab	18.02	0.0	0.0		
LAB*Lab	18.02	0.01	0.0		
relative CIELAB lab*					
lab*lab	0.167	0.0	0.0		
lab*tch	0.167	0.0	0.0		
lab*nch	0.167	0.0	0.0		
lab*trj	0.167	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.167	0.0	0.0		
lab*tch	0.167	0.0	0.0		
lab*nch	0.167	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.125	0.125	0.125	(1.0)	
cmyn3*	0.125	0.125	0.125	(0.0)	
olvi4*	1.0	1.0	1.0	0.125	
cmyn4*	0.0	0.0	0.0	0.125	
standard and adapted CIELAB					
LAB*LAB	12.5	0.0	0.0		
LAB*Lab	12.5	0.0	0.0		
LAB*Lab	12.5	0.01	0.0		
relative CIELAB lab*					
lab*lab	0.125	0.0	0.0		
lab*tch	0.125	0.0	0.0		
lab*nch	0.125	0.0	0.0		
lab*trj	0.125	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.125	0.0	0.0		
lab*tch	0.125	0.0	0.0		
lab*nch	0.125	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.083	0.083	0.083	(1.0)	
cmyn3*	0.083	0.083	0.083	(0.0)	
olvi4*	1.0	1.0	1.0	0.083	
cmyn4*	0.0	0.0	0.0	0.083	
standard and adapted CIELAB					
LAB*LAB	7.5	0.0	0.0		
LAB*Lab	7.5	0.0	0.0		
LAB*Lab	7.5	0.01	0.0		
relative CIELAB lab*					
lab*lab	0.083	0.0	0.0		
lab*tch	0.083	0.0	0.0		
lab*nch	0.083	0.0	0.0		
lab*trj	0.083	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.083	0.0	0.0		
lab*tch	0.083	0.0	0.0		
lab*nch	0.083	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.063	0.063	0.063	(1.0)	
cmyn3*	0.063	0.063	0.063	(0.0)	
olvi4*	1.0	1.0	1.0	0.063	
cmyn4*	0.0	0.0	0.0	0.063	
standard and adapted CIELAB					
LAB*LAB	5.0	0.0	0.0		
LAB*Lab	5.0	0.0	0.0		
LAB*Lab	5.0	0.01	0.0		
relative CIELAB lab*					
lab*lab	0.063	0.0	0.0		
lab*tch	0.063	0.0	0.0		
lab*nch	0.063	0.0	0.0		
lab*trj	0.063	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.063	0.0	0.0		
lab*tch	0.063	0.0	0.0		
lab*nch	0.063	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.042	0.042	0.042	(1.0)	
cmyn3*	0.042	0.042	0.042	(0.0)	
olvi4*	1.0	1.0	1.0	0.042	
cmyn4*	0.0	0.0	0.0	0.042	
standard and adapted CIELAB					
LAB*LAB	3.0	0.0	0.0		
LAB*Lab	3.0	0.0	0.0		
LAB*Lab	3.0	0.01	0.0		
relative CIELAB lab*					
lab*lab	0.042	0.0	0.0		
lab*tch	0.042	0.0	0.0		
lab*nch	0.042	0.0	0.0		
lab*trj	0.042	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.042	0.0	0.0		
lab*tch	0.042	0.0	0.0		
lab*nch	0.042	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.031	0.031	0.031	(1.0)	
cmyn3*	0.031	0.031	0.031	(0.0)	
olvi4*	1.0	1.0	1.0	0.031	
cmyn4*	0.0	0.0	0.0	0.031	
standard and adapted CIELAB					
LAB*LAB	2.0	0.0	0.0		
LAB*Lab	2.0	0.0	0.0		
LAB*Lab	2.0	0.01	0.0		
relative CIELAB lab*					
lab*lab	0.031	0.0	0.0		
lab*tch	0.031	0.0	0.0		
lab*nch	0.031	0.0	0.0		
lab*trj	0.031	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.031	0.0	0.0		
lab*tch	0.031	0.0	0.0		
lab*nch	0.031	0.0	0.0		

0 hues	0
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Input: Colorimetric Television Luminous System TLS18

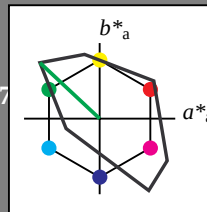
for hue $h^* = lab \cdot h = 137/360 = 0.38$

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

D65: hue L
LCH*Ma: 84 108 137
olv*Ma: 0.0 1.0 0.0

triangle lightness

1,00



% Gamut
 $u^*_{rel} = 118$

TLS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
N _{Ma}	18.01	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

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

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

1,00

relative Inform. Technology (IT)				
olvi3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	95.41	-0.98	4.75	
LAB*LAB	95.41	0.0	0.0	
LAB*TCha	99.91	0.01		
relative CIELAB lab*				
lab*lab	1.0	0.0	0.0	
lab*tch	1.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	
lab*trj	1.0	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	1.0	0.0	0.0	
lab*tch	1.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	

relative Inform. Technology (IT)				
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)
standard and adapted CIELAB				
LAB*LAB	76.06	-0.61	3.44	
LAB*LAB	76.06	0.0	0.0	
LAB*TCha	75.0	0.01		
relative CIELAB lab*				
lab*lab	0.75	0.0	0.0	
lab*tch	0.75	0.0	0.0	
lab*nch	0.0	0.0	0.0	
lab*trj	0.75	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.75	0.0	0.0	
lab*tch	0.75	0.0	0.0	
lab*nch	0.0	0.0	0.0	

relative Inform. Technology (IT)				
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)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.24	2.14	
LAB*LAB	56.71	0.0	0.0	
LAB*TCha	50.0	0.01		
relative CIELAB lab*				
lab*lab	0.5	0.0	0.0	
lab*tch	0.5	0.0	0.0	
lab*nch	0.0	0.0	0.0	
lab*trj	0.5	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.5	0.0	0.0	
lab*tch	0.5	0.0	0.0	
lab*nch	0.0	0.0	0.0	

relative Inform. Technology (IT)				
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)
standard and adapted CIELAB				
LAB*LAB	37.36	0.13	0.83	
LAB*LAB	37.36	0.0	0.0	
LAB*TCha	25.0	0.01		
relative CIELAB lab*				
lab*lab	0.25	0.0	0.0	
lab*tch	0.25	0.0	0.0	
lab*nch	0.0	0.0	0.0	
lab*trj	0.25	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.25	0.0	0.0	
lab*tch	0.25	0.0	0.0	
lab*nch	0.0	0.0	0.0	

relative Inform. Technology (IT)				
olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	0.5	-0.47	
LAB*LAB	18.02	0.0	0.0	
LAB*TCha	0.01	0.01		
relative CIELAB lab*				
lab*lab	0.0	0.0	0.0	
lab*tch	0.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	
lab*trj	0.0	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.0	0.0	0.0	
lab*tch	0.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	

$n^* = 1,0$

chromaticness c^*

blackness n^*

5 step scales for constant CIELAB hue 151/360 = 0.419 (right)

BAM-test chart OE46; Colorimetric systems TLS18 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

output: no change compared to input

Output: Colorimetric Offset Reflective System ORS18

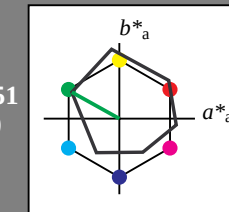
for hue $h^* = lab \cdot h = 151/360 = 0.419$

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

D65: hue L
LCH*Ma: 51 72 151
olv*Ma: 0.0 1.0 0.0

triangle lightness

1,00



% Gamut
 $u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

% Regularity

$g^*_{H,rel} = 57$

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

relative Inform. Technology (IT)				
olvi3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	95.41	-0.98	4.75	
LAB*LAB	95.41	0.0	0.0	
LAB*TCha	99.91	0.01		
relative CIELAB lab*				
lab*lab	1.0	0.0	0.0	
lab*tch	1.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	
lab*trj	1.0	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	1.0	0.0	0.0	
lab*tch	1.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	

relative Inform. Technology (IT)				
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)
standard and adapted CIELAB				
LAB*LAB	76.06	-0.61	3.44	
LAB*LAB	76.06	0.0	0.0	
LAB*TCha	75.0	0.01		
relative CIELAB lab*				
lab*lab	0.75	0.0	0.0	
lab*tch	0.75	0.0	0.0	
lab*nch	0.0	0.0	0.0	
lab*trj	0.75	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.75	0.0	0.0	
lab*tch	0.75	0.0	0.0	
lab*nch	0.0	0.0	0.0	

relative Inform. Technology (IT)				
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)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.24	2.14	
LAB*LAB	56.71	0.0	0.0	
LAB*TCha	50.0	0.01		
relative CIELAB lab*				
lab*lab	0.5	0.0	0.0	
lab*tch	0.5	0.0	0.0	
lab*nch	0.0	0.0	0.0	
lab*trj	0.5	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.5	0.0	0.0	
lab*tch	0.5	0.0	0.0	
lab*nch	0.0	0.0	0.0	

relative Inform. Technology (IT)				
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)
standard and adapted CIELAB				
LAB*LAB	37.36	0.13	0.83	
LAB*LAB	37.36	0.0	0.0	
LAB*TCha	25.0	0.01		
relative CIELAB lab*				
lab*lab	0.25	0.0	0.0	
lab*tch	0.25	0.0	0.0	
lab*nch	0.0	0.0	0.0	
lab*trj	0.25	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.25	0.0	0.0	
lab*tch	0.25	0.0	0.0	
lab*nch	0.0	0.0	0.0	

relative Inform. Technology (IT)				
olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	18.02	0.5	-0.47	
LAB*LAB	18.02	0.0	0.0	
LAB*TCha	0.01	0.01		
relative CIELAB lab*				
lab*lab	0.0	0.0	0.0	
lab*tch	0.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	
lab*trj	0.0	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.0	0.0	0.0	
lab*tch	0.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	

$n^* = 0,00$

chromaticness c^*

blackness n^*

5 step scales for constant CIELAB hue 151/360 = 0.419 (right)

BAM-test chart OE46; Colorimetric systems TLS18 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

output: no change compared to input

OE460-7, 5 step scales for constant CIELAB hue 137/360 = 0.38 (left)

BAM-test chart OE46; Colorimetric systems TLS18 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

output: no change compared to input

Input: Colorimetric Television Luminous System TLS18

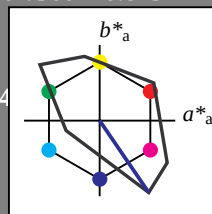
for hue $h^* = lab \cdot h = 304/360 = 0.845$

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

D65: hue V
LCH*Ma: 35 115 304
olv*Ma: 0.0 0.0 1.0

triangle lightness

1,00



TLS18; adapted (a) CIELAB data

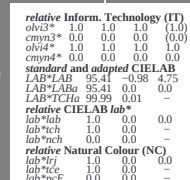
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
N _{Ma}	18.01	0.0	0.0	0.0	0
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

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

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

1,00



Output: Colorimetric Offset Reflective System ORS18

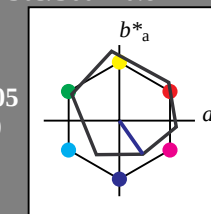
for hue $h^* = lab \cdot h = 305/360 = 0.847$

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

D65: hue V
LCH*Ma: 26 54 305
olv*Ma: 0.0 0.0 1.0

triangle lightness

1,00



ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularity

$g^*_{H,rel} = 57$

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

1,00



OE460-7, 5 step scales for constant CIELAB hue 304/360 = 0.845 (left)



BAM-test chart OE46; Colorimetric systems TLS18 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

5 step scales for constant CIELAB hue 305/360 = 0.847 (right)

input: $cmY0^* set cmykcolor$

output: no change compared to input

Input: Colorimetric Television Luminous System TLS18

for hue $h^* = lab \cdot h = 328/360 = 0.911$

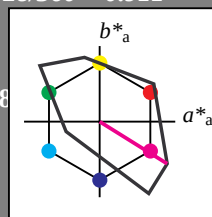
$lab \cdot tch$ and $lab \cdot nch$

D65: hue M

LCH*Ma: 59 105 328

olv*Ma: 1.0 0.0 1.0

triangle lightness



TLS18; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
N _{Ma}	18.01	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

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

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab \cdot h = 354/360 = 0.982$

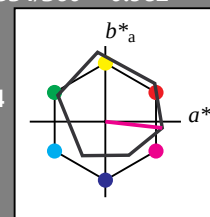
$lab \cdot tch$ and $lab \cdot nch$

D65: hue M

LCH*Ma: 48 76 354

olv*Ma: 1.0 0.0 1.0

triangle lightness



ORS18; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularity

$g^*_{H,rel} = 57$

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

OE460-7, 5 step scales for constant CIELAB hue 328/360 = 0.911 (left)

5 step scales for constant CIELAB hue 354/360 = 0.982 (right)

BAM-test chart OE46; Colorimetric systems TLS18 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

input: $cmY0^* setcmykcolor$

output: no change compared to input

Input: Colorimetric Television Luminous System TLS18

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

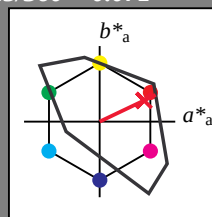
$lab \cdot tch$ and $lab \cdot nch$

D65: hue R

LCH*Ma: 54 82 25

olv*Ma: 1.0 0.0 0.14

triangle lightness



TLS18; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
N _{Ma}	18.01	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

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

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

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BAM material: code=rh4ta

Input: Colorimetric Television Luminous System TLS18

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

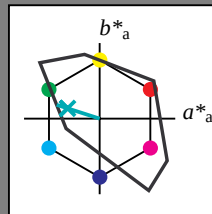
$lab \cdot tch$ and $lab \cdot nch$

D65: hue G

LCH*Ma: 86 60 162

olv*Ma: 0.0 1.0 0.64

triangle lightness



TLS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
N _{Ma}	18.01	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

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

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

1,00

0,75

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,00$

chromaticness c^*

OE460-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)



BAM-test chart OE46; Colorimetric systems TLS18 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab \cdot h = 164/360 = 0.457$

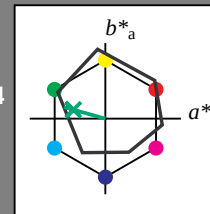
$lab \cdot tch$ and $lab \cdot nch$

D65: hue G

LCH*Ma: 53 57 164

olv*Ma: 0.0 1.0 0.25

triangle lightness



%Gamut

$u^*_{rel} = 93$

1,00

0,75

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,00$

chromaticness c^*

5 step scales for constant CIELAB hue 164/360 = 0.457 (right)

input: $cmY0^* \text{ set } cmykcolor$

output: no change compared to input

ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularity

$g^*_{H,rel} = 57$

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

1,00

0,75

blackness n^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,00$

chromaticness c^*

Input: Colorimetric Television Luminous System TLS18

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

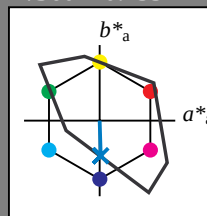
$lab \cdot tch$ and $lab \cdot nch$

D65: hue B

LCH*Ma: 65 48 272

olv*Ma: 0.0 0.58 1.0

triangle lightness



TLS18; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
N _{Ma}	18.01	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

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

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

1,00

0,75

0,25

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

OE460-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)



BAM-test chart OE46; Colorimetric systems TLS18 & ORS18

D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab \cdot h = 271/360 = 0.754$

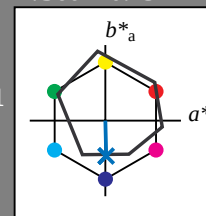
$lab \cdot tch$ and $lab \cdot nch$

D65: hue B

LCH*Ma: 42 45 271

olv*Ma: 0.0 0.49 1.0

triangle lightness



ORS18; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularity

$g^*_{H,rel} = 57$

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

1,00

0,75

0,25

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

5 step scales for constant CIELAB hue 271/360 = 0.754 (right)

input: $cmY0^* \text{ set } cmykcolor$

output: no change compared to input