

Input: Colorimetric Offset Reflective System ORS18

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

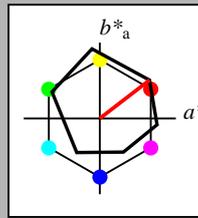
lab^*ch and lab^*nch

D65: hue 0

LCH*Ma: 48 83 38

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



%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
RC _{IE}	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

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

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

Output: Colorimetric Television Luminous System TLS18

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

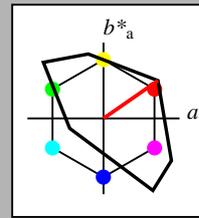
lab^*ch and lab^*nch

D65: hue 0

LCH*Ma: 53 87 35

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



%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
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

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

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

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	47.5	0.0
LAB*LABa	95.41	0.0	0.0	0.0
LAB*LABb	99.99	0.01	0.0	0.0

relative Inform. Technology (IT)

olvi3*	1.0	0.75	0.75	(1.0)
cmyn3*	0.0	0.25	0.25	(0.0)
olvi4*	1.0	0.75	0.75	(1.0)
cmyn4*	0.0	0.25	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	83.54	15.58	16.58	0.0
LAB*LABa	83.54	16.34	12.63	0.0
LAB*LABb	85	20.65	37.69	0.0

relative Inform. Technology (IT)

olvi3*	1.0	0.5	0.5	(1.0)
cmyn3*	0.0	0.5	0.5	(0.0)
olvi4*	1.0	0.5	0.5	(1.0)
cmyn4*	0.0	0.5	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	71.67	32.69	28.41	0.0
LAB*LABa	71.67	32.69	28.25	0.0
LAB*LABb	75.0	41.31	37.69	0.0

relative Inform. Technology (IT)

olvi3*	1.0	0.25	0.25	(1.0)
cmyn3*	0.0	0.75	0.75	(0.0)
olvi4*	1.0	0.25	0.25	(1.0)
cmyn4*	0.0	0.75	0.75	(0.0)

standard and adapted CIELAB

LAB*LAB	59.8	48.73	40.24	0.0
LAB*LABa	59.8	49.03	37.88	0.0
LAB*LABb	62.5	61.96	37.69	0.0

relative Inform. Technology (IT)

olvi3*	1.0	0.0	0.0	(1.0)
cmyn3*	0.0	1.0	1.0	(0.0)
olvi4*	1.0	0.0	0.0	(1.0)
cmyn4*	0.0	1.0	1.0	(0.0)

standard and adapted CIELAB

LAB*LAB	49.94	65.3	52.06	0.0
LAB*LABa	49.94	65.37	50.51	0.0
LAB*LABb	50.0	82.61	37.69	0.0

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	0.0	0.0	0.0
LAB*LABa	95.41	0.0	0.0	0.0
LAB*LABb	99.99	0.01	0.0	0.0

relative Inform. Technology (IT)

olvi3*	1.0	0.75	0.75	(1.0)
cmyn3*	0.0	0.25	0.25	(0.0)
olvi4*	1.0	0.75	0.75	(1.0)
cmyn4*	0.0	0.25	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	84.74	17.9	12.47	0.0
LAB*LABa	84.74	17.9	12.47	0.0
LAB*LABb	87.5	21.81	34.85	0.0

relative Inform. Technology (IT)

olvi3*	1.0	0.5	0.5	(1.0)
cmyn3*	0.0	0.5	0.5	(0.0)
olvi4*	1.0	0.5	0.5	(1.0)
cmyn4*	0.0	0.5	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	76.07	0.0	0.0	0.0
LAB*LABa	76.07	0.0	0.0	0.0
LAB*LABb	75.0	0.01	0.0	0.0

relative Inform. Technology (IT)

olvi3*	1.0	0.25	0.25	(1.0)
cmyn3*	0.0	0.75	0.75	(0.0)
olvi4*	1.0	0.25	0.25	(1.0)
cmyn4*	0.0	0.75	0.75	(0.0)

standard and adapted CIELAB

LAB*LAB	65.4	17.91	12.47	0.0
LAB*LABa	65.4	17.91	12.47	0.0
LAB*LABb	62.5	21.82	34.85	0.0

relative Inform. Technology (IT)

olvi3*	1.0	0.25	0.25	(1.0)
cmyn3*	0.0	0.75	0.75	(0.0)
olvi4*	1.0	0.25	0.25	(1.0)
cmyn4*	0.0	0.75	0.75	(0.0)

standard and adapted CIELAB

LAB*LAB	52.76	71.62	49.87	0.0
LAB*LABa	52.76	71.62	49.87	0.0
LAB*LABb	50.0	82.27	34.85	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	0.0
LAB*LABa	76.06	0.0	0.0	0.0
LAB*LABb	75.0	0.01	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.75	0.5	0.5	(1.0)
cmyn3*	0.25	0.5	0.5	(0.0)
olvi4*	1.0	0.75	0.75	(1.0)
cmyn4*	0.0	0.25	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	64.19	15.96	15.28	0.0
LAB*LABa	64.19	16.35	12.63	0.0
LAB*LABb	62.5	20.66	37.69	0.0

relative Inform. Technology (IT)

olvi3*	0.75	0.5	0.5	(1.0)
cmyn3*	0.25	0.5	0.5	(0.0)
olvi4*	1.0	0.75	0.75	(1.0)
cmyn4*	0.0	0.25	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	59.8	48.73	40.24	0.0
LAB*LABa	59.8	49.03	37.88	0.0
LAB*LABb	62.5	61.96	37.69	0.0

relative Inform. Technology (IT)

olvi3*	0.75	0.0	0.0	(1.0)
cmyn3*	0.25	1.0	1.0	(0.0)
olvi4*	1.0	0.25	0.25	(1.0)
cmyn4*	0.0	0.75	0.75	(0.0)

standard and adapted CIELAB

LAB*LAB	49.94	65.3	52.06	0.0
LAB*LABa	49.94	65.37	50.51	0.0
LAB*LABb	50.0	82.61	37.69	0.0

relative Inform. Technology (IT)

olvi3*	0.75	0.0	0.0	(1.0)
cmyn3*	0.25	1.0	1.0	(0.0)
olvi4*	1.0	0.25	0.25	(1.0)
cmyn4*	0.0	0.75	0.75	(0.0)

standard and adapted CIELAB

LAB*LAB	49.94	65.3	52.06	0.0
LAB*LABa	49.94	65.37	50.51	0.0
LAB*LABb	50.0	82.61	37.69	0.0

relative Inform. Technology (IT)

olvi3*	0.75	0.25	0.25	(1.0)
cmyn3*	0.25	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.75	0.75	(0.0)

standard and adapted CIELAB

LAB*LAB	56.72	0.0	0.0	0.0
LAB*LABa	56.72	0.0	0.0	0.0
LAB*LABb	55.0	0.01	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.75	0.25	0.25	(1.0)
cmyn3*	0.25	0.5	0.5	(0.0)
olvi4*	1.0	0.75	0.75	(1.0)
cmyn4*	0.0	0.25	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	54.74	35.82	24.94	0.0
LAB*LABa	54.74	35.82	24.94	0.0
LAB*LABb	50.0	43.64	34.85	0.0

relative Inform. Technology (IT)

olvi3*	0.75	0.25	0.25	(1.0)
cmyn3*	0.25	0.75	0.75	(0.0)
olvi4*	1.0	0.5	0.5	(1.0)
cmyn4*	0.0	0.5	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	54.74	35.82	24.94	0.0
LAB*LABa	54.74	35.82	24.94	0.0
LAB*LABb	50.0	43.64	34.85	0.0

relative Inform. Technology (IT)

olvi3*	0.75	0.25	0.25	(1.0)
cmyn3*	0.25	0.75	0.75	(0.0)
olvi4*	1.0	0.25	0.25	(1.0)
cmyn4*	0.0	0.75	0.75	(0.0)

standard and adapted CIELAB

LAB*LAB	63.42	53.72	37.41	0.0
LAB*LABa	63.42	53.72	37.41	0.0
LAB*LABb	62.5	65.46	34.85	0.0

relative Inform. Technology (IT)

olvi3*	0.75	0.0	0.0	(1.0)
cmyn3*	0.25	1.0	1.0	(0.0)
olvi4*	1.0	0.25	0.25	(1.0)
cmyn4*	0.0	0.75	0.75	(0.0)

standard and adapted CIELAB

LAB*LAB	52.76	71.62	49.87	0.0
LAB*LABa	52.76	71.62	49.87	0.0
LAB*LABb	50.0	82.27	34.85	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	0.0	0.0	0.0
LAB*LABa	56.71	0.0	0.0	0.0
LAB*LABb	55.0	0.01	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	0.75	0.75	(1.0)
cmyn4*	0.0	0.25	0.25	(0.0)

standard and adapted CIELAB

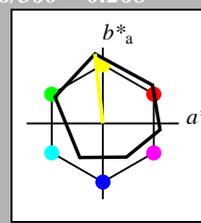
LAB*LAB	44.32	16.35	13.97	0.0
LAB*LABa	44.32	16.35	13.97	0.0
LAB*LABb	42.5	20.66	37.69	0.0

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 96/360 = 0.268$
 lab^*ch and lab^*nch

D65: hue Y
 LCH*Ma: 90 92 96
 olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



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
RC _{IE}	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)
 ohv3* 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 -0.98 47.5
 LAB*LAB 95.41 0.0 0.0
 LAB*TCa 99.99 0.01 -

relative CIELAB lab*
 lab*lab 1.0 0.0 0.0
 lab*ch 1.0 0.0 0.0
 lab*nch 0.0 0.0 -
 relative Natural Colour (NC)
 lab*nrj 1.0 0.0 0.0
 lab*nce 1.0 0.0 0.0
 lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
 ohv3* 0.75 0.75 0.75 (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 76.06 -0.61 3.44
 LAB*LAB 76.06 0.0 0.0
 LAB*TCa 75.00 0.01 -

relative CIELAB lab*
 lab*lab 0.75 0.75 0.75 (1.0)
 lab*ch 0.75 0.0 0.0
 lab*nch 0.25 0.0 0.0
 relative Natural Colour (NC)
 lab*nrj 0.75 0.0 0.0
 lab*nce 0.75 0.0 0.0
 lab*nce 0.25 0.0 -

relative Inform. Technology (IT)
 ohv3* 0.5 0.5 0.5 (0.0)
 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 56.71 -0.24 2.14
 LAB*LAB 56.71 0.0 0.0
 LAB*TCa 50.00 0.01 -

relative CIELAB lab*
 lab*lab 0.5 0.5 0.5 (0.0)
 lab*ch 0.5 0.0 0.0
 lab*nch 0.25 0.0 0.0
 relative Natural Colour (NC)
 lab*nrj 0.5 0.0 0.0
 lab*nce 0.5 0.0 0.0
 lab*nce 0.25 0.0 -

relative Inform. Technology (IT)
 ohv3* 0.25 0.25 0.25 (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 37.58 -0.33 0.83
 LAB*LAB 37.58 0.0 0.0
 LAB*TCa 25.00 0.01 -

relative CIELAB lab*
 lab*lab 0.25 0.25 0.25 (1.0)
 lab*ch 0.25 0.0 0.0
 lab*nch 0.125 0.0 0.0
 relative Natural Colour (NC)
 lab*nrj 0.25 0.0 0.0
 lab*nce 0.25 0.0 0.0
 lab*nce 0.125 0.0 -

relative Inform. Technology (IT)
 ohv3* 0.0 0.0 0.0 (1.0)
 cmv3* 1.0 1.0 1.0 (1.0)
 olv4* 1.0 1.0 1.0 (1.0)
 cmv4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.02 0.0 0.0
 LAB*LAB 18.02 0.0 0.0
 LAB*TCa 0.01 -

relative CIELAB lab*
 lab*lab 0.0 0.0 0.0
 lab*ch 0.0 0.0 0.0
 lab*nch 1.0 0.0 0.0
 relative Natural Colour (NC)
 lab*nrj 0.0 0.0 0.0
 lab*nce 0.0 0.0 0.0
 lab*nce 1.0 0.0 -

relative Inform. Technology (IT)
 ohv3* 0.0 0.0 0.0 (1.0)
 cmv3* 1.0 1.0 1.0 (1.0)
 olv4* 1.0 1.0 1.0 (1.0)
 cmv4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.02 0.0 0.0
 LAB*LAB 18.02 0.0 0.0
 LAB*TCa 0.01 -

relative Inform. Technology (IT)
 ohv3* 1.0 1.0 0.75 (1.0)
 cmv3* 0.0 0.0 0.25 (0.0)
 olv4* 1.0 1.0 1.0 (1.0)
 cmv4* 0.0 0.0 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 94.14 -3.52 27.6
 LAB*LAB 94.14 -2.56 22.93
 LAB*TCa 87.5 25.07 96.38

relative CIELAB lab*
 lab*lab 0.984 -0.027 0.248
 lab*ch 0.875 0.25 2.68
 lab*nch 0.0 0.25 0.268
 relative Natural Colour (NC)
 lab*nrj 0.984 -0.024 0.249
 lab*nce 0.875 0.25 2.66
 lab*nce 0.0 0.25 1.06

relative Inform. Technology (IT)
 ohv3* 0.75 0.75 0.5 (1.0)
 cmv3* 0.25 0.25 0.5 (0.0)
 olv4* 1.0 1.0 0.75 (0.0)
 cmv4* 0.0 0.0 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 74.8 -3.15 26.3
 LAB*LAB 74.8 -2.56 22.94
 LAB*TCa 62.5 23.08 96.38

relative CIELAB lab*
 lab*lab 0.75 0.75 0.5 (1.0)
 lab*ch 0.625 0.25 2.68
 lab*nch 0.25 0.25 0.268
 relative Natural Colour (NC)
 lab*nrj 0.734 -0.024 0.249
 lab*nce 0.625 0.25 2.66
 lab*nce 0.25 0.25 1.06

relative Inform. Technology (IT)
 ohv3* 0.5 0.5 0.25 (1.0)
 cmv3* 0.25 0.25 0.5 (0.0)
 olv4* 1.0 1.0 0.5 (0.0)
 cmv4* 0.0 0.0 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 55.35 -2.78 5.0
 LAB*LAB 55.35 -2.56 22.94
 LAB*TCa 37.5 23.08 96.38

relative CIELAB lab*
 lab*lab 0.484 -0.027 0.248
 lab*ch 0.375 0.25 2.68
 lab*nch 0.0 0.25 0.268
 relative Natural Colour (NC)
 lab*nrj 0.484 -0.024 0.249
 lab*nce 0.375 0.25 2.66
 lab*nce 0.0 0.25 1.06

relative Inform. Technology (IT)
 ohv3* 0.25 0.25 0.0 (1.0)
 cmv3* 0.75 0.75 1.0 (0.0)
 olv4* 1.0 1.0 0.25 (0.0)
 cmv4* 0.0 0.0 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 49.19 -5.23 47.84
 LAB*LAB 49.19 -5.23 47.84
 LAB*TCa 25.01 46.15 96.38

relative CIELAB lab*
 lab*lab 0.234 -0.027 0.248
 lab*ch 0.125 0.25 2.68
 lab*nch 0.0 0.25 0.268
 relative Natural Colour (NC)
 lab*nrj 0.234 -0.024 0.249
 lab*nce 0.125 0.25 2.66
 lab*nce 0.0 0.25 1.06

relative Inform. Technology (IT)
 ohv3* 0.0 0.0 0.0 (1.0)
 cmv3* 1.0 1.0 0.0 (0.0)
 olv4* 1.0 1.0 0.0 (0.0)
 cmv4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.02 0.0 0.0
 LAB*LAB 18.02 0.0 0.0
 LAB*TCa 0.01 -

relative CIELAB lab*
 lab*lab 0.0 0.0 0.0
 lab*ch 0.0 0.0 0.0
 lab*nch 1.0 0.0 0.0
 relative Natural Colour (NC)
 lab*nrj 0.0 0.0 0.0
 lab*nce 0.0 0.0 0.0
 lab*nce 1.0 0.0 -

relative Inform. Technology (IT)
 ohv3* 1.0 1.0 0.5 (1.0)
 cmv3* 0.0 0.0 0.5 (0.0)
 olv4* 1.0 1.0 0.5 (1.0)
 cmv4* 0.0 0.0 0.5 (0.0)
 standard and adapted CIELAB
 LAB*LAB 92.88 -6.06 50.46
 LAB*LAB 92.88 -5.12 45.87
 LAB*TCa 75.0 46.15 96.38

relative CIELAB lab*
 lab*lab 0.967 -0.055 0.497
 lab*ch 0.75 0.5 0.5 (1.0)
 lab*nch 0.0 0.5 0.268
 relative Natural Colour (NC)
 lab*nrj 0.967 -0.048 0.497
 lab*nce 0.75 0.5 0.266
 lab*nce 0.0 0.5 1.06

relative Inform. Technology (IT)
 ohv3* 1.0 1.0 0.25 (1.0)
 cmv3* 0.0 0.0 0.25 (0.0)
 olv4* 1.0 1.0 0.25 (1.0)
 cmv4* 0.0 0.0 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 91.62 -8.61 73.31
 LAB*LAB 91.62 -7.69 68.8
 LAB*TCa 62.5 69.23 96.38

relative CIELAB lab*
 lab*lab 0.951 -0.082 0.745
 lab*ch 0.625 0.75 0.268
 lab*nch 0.0 0.75 0.268
 relative Natural Colour (NC)
 lab*nrj 0.951 -0.073 0.746
 lab*nce 0.625 0.75 0.266
 lab*nce 0.0 0.75 1.06

relative Inform. Technology (IT)
 ohv3* 0.75 0.75 0.0 (1.0)
 cmv3* 0.25 0.25 0.0 (0.0)
 olv4* 1.0 1.0 0.0 (0.0)
 cmv4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 73.54 -5.69 49.16
 LAB*LAB 73.54 -5.12 45.88
 LAB*TCa 50.0 46.15 96.38

relative CIELAB lab*
 lab*lab 0.717 -0.048 0.498
 lab*ch 0.5 0.5 0.5 (1.0)
 lab*nch 0.0 0.5 0.268
 relative Natural Colour (NC)
 lab*nrj 0.717 -0.048 0.498
 lab*nce 0.5 0.5 0.266
 lab*nce 0.0 0.5 1.06

relative Inform. Technology (IT)
 ohv3* 0.5 0.5 0.0 (1.0)
 cmv3* 0.5 0.5 0.0 (0.0)
 olv4* 1.0 1.0 0.0 (0.0)
 cmv4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 55.35 -2.78 5.0
 LAB*LAB 55.35 -2.56 22.94
 LAB*TCa 37.5 23.08 96.38

relative CIELAB lab*
 lab*lab 0.484 -0.027 0.248
 lab*ch 0.375 0.25 2.68
 lab*nch 0.0 0.25 0.268
 relative Natural Colour (NC)
 lab*nrj 0.484 -0.024 0.249
 lab*nce 0.375 0.25 2.66
 lab*nce 0.0 0.25 1.06

relative Inform. Technology (IT)
 ohv3* 0.25 0.25 0.0 (1.0)
 cmv3* 0.5 0.5 0.0 (0.0)
 olv4* 1.0 1.0 0.0 (0.0)
 cmv4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 49.19 -5.23 47.84
 LAB*LAB 49.19 -5.23 47.84
 LAB*TCa 25.01 46.15 96.38

relative CIELAB lab*
 lab*lab 0.234 -0.027 0.248
 lab*ch 0.125 0.25 2.68
 lab*nch 0.0 0.25 0.268
 relative Natural Colour (NC)
 lab*nrj 0.234 -0.024 0.249
 lab*nce 0.125 0.25 2.66
 lab*nce 0.0 0.25 1.06

relative Inform. Technology (IT)
 ohv3* 0.0 0.0 0.0 (1.0)
 cmv3* 1.0 1.0 0.0 (0.0)
 olv4* 1.0 1.0 0.0 (0.0)
 cmv4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.02 0.0 0.0
 LAB*LAB 18.02 0.0 0.0
 LAB*TCa 0.01 -

relative Inform. Technology (IT)
 ohv3* 1.0 1.0 0.0 (1.0)
 cmv3* 0.0 0.0 0.0 (0.0)
 olv4* 1.0 1.0 0.0 (1.0)
 cmv4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 76.07 0.0 0.0
 LAB*LAB 76.07 0.0 0.0
 LAB*TCa 75.00 0.01 -

relative CIELAB lab*
 lab*lab 1.0 0.0 0.0
 lab*ch 0.75 0.0 0.0
 lab*nch 0.25 0.0 0.0
 relative Natural Colour (NC)
 lab*nrj 1.0 0.0 0.0
 lab*nce 1.0 0.0 0.0
 lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
 ohv3* 0.5 0.5 0.0 (1.0)
 cmv3* 0.5 0.5 0.0 (0.0)
 olv4* 1.0 1.0 0.0 (1.0)
 cmv4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 56.72 0.0 0.0
 LAB*LAB 56.72 0.0 0.0
 LAB*TCa 50.0 0.01 -

relative CIELAB lab*
 lab*lab 0.5 0.0 0.0
 lab*ch 0.5 0.0 0.0
 lab*nch 0.25 0.0 0.0
 relative Natural Colour (NC)
 lab*nrj 0.5 0.0 0.0
 lab*nce 0.5 0.0 0.0
 lab*nce 0.25 0.0 -

relative Inform. Technology (IT)
 ohv3* 0.25 0.25 0.0 (1.0)
 cmv3* 0.25 0.25 0.0 (0.0)
 olv4* 1.0 1.0 0.0 (1.0)
 cmv4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 36.69 -3.0 21.23
 LAB*LAB 36.69 -3.0 21.23
 LAB*TCa 25.01 46.15 96.38

relative CIELAB lab*
 lab*lab 0.241 -0.056 0.243
 lab*ch 0.25 0.25 0.287
 lab*nch 0.0 0.25 0.287
 relative Natural Colour (NC)
 lab*nrj 0.241 -0.06 0.242
 lab*nce 0.25 0.25 0.289
 lab*nce 0.0 0.25 1.15

relative Inform. Technology (IT)
 ohv3* 0.0 0.0 0.0 (1.0)
 cmv3* 1.0 1.0 0.0 (0.0)
 olv4* 1.0 1.0 0.0 (0.0)
 cmv4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.03 0.0 0.0
 LAB*LAB 18.03 0.0 0.0
 LAB*TCa 0.01 -

relative CIELAB lab*
 lab*lab 0.0 0.0 0.0
 lab*ch 0.0 0.0 0.0
 lab*nch 1.0 0.0 0.0
 relative Natural Colour (NC)
 lab*nrj 0.0 0.0 0.0
 lab*nce 0.0 0.0 0.0
 lab*nce 1.0 0.0 -

relative Inform. Technology (IT)
 ohv3* 0.0 0.0 0.0 (1.0)
 cmv3* 1.0 1.0 0.0 (0.0)
 olv4* 1.0 1.0 0.0 (0.0)
 cmv4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.03 0.0 0.0
 LAB*LAB 18.03 0.0 0.0
 LAB*TCa 0.01 -

relative CIELAB lab*
 lab*lab 0.0 0.0 0.0
 lab*ch 0.0 0.0 0.0
 lab*nch 1.0 0.0 0.0
 relative Natural Colour (NC)
 lab*nrj 0.0 0.0 0.0
 lab*nce 0.0 0.0 0.0
 lab*nce 1.0 0.0 -

relative Inform. Technology (IT)
 ohv3* 0.0 0.0 0.0 (1.0)
 cmv3* 1.0 1.0 0.0 (0.0)
 olv4* 1.0 1.0 0.0 (0.0)
 cmv4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.03 0.0 0.0
 LAB*LAB 18.03 0.0 0.0
 LAB*TCa 0.01 -

relative Inform. Technology (IT)
 ohv3* 1.0 1.0 0.0 (1.0)
 cmv3* 0.0 0.0 0.0 (0.0)
 olv4* 1.0 1.0 0.0 (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*TCa 99.99 0.01 -

relative CIELAB lab*
 lab*lab 1.0 0.0 0.0
 lab*ch 0.75 0.0 0.0
 lab*nch 0.25 0.0 0.0
 relative Natural Colour (NC)
 lab*nrj 1.0 0.0 0.0
 lab*nce 1.0 0.0 0.0
 lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
 ohv3* 0.5 0.5 0.0 (1.0)
 cmv3* 0.5 0.5 0.0 (0.0)
 olv4* 1.0 1.0 0.0 (1.0)
 cmv4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 56.72 0.0 0.0
 LAB*LAB 56.72 0.0 0.0
 LAB*TCa 50.0 0.01 -

relative CIELAB lab*
 lab*lab 0.5 0.0 0.0
 lab*ch 0.5 0.0 0.0
 lab*nch 0.25 0.0 0.0
 relative Natural Colour (NC)
 lab*nrj 0.5 0.0 0.0
 lab*nce 0.5 0.0 0.0
 lab*nce 0.25 0.0 -

relative Inform. Technology (IT)
 ohv3* 0.25 0.25 0.0 (1.0)
 cmv3* 0.25 0.25 0.0 (0.0)
 olv4* 1.0 1.0 0.0 (1.0)
 cmv4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 36.69 -3.0 21.23
 LAB*LAB 36.69 -3.0 21.23
 LAB*TCa 25.01 46.15 96.38

relative CIELAB lab*
 lab*lab 0.241 -0.056 0.243
 lab*ch 0.25 0.25 0.287
 lab*nch 0.0 0.25 0.287
 relative Natural Colour (NC)
 lab*nrj 0.241 -0.06 0.242
 lab*nce 0.25 0.25 0.289
 lab*nce 0.0 0.25 1.15

relative Inform. Technology (IT)
 ohv3* 0.0 0.0 0.0 (1.0)
 cmv3* 1.0 1.0 0.0 (0.0)
 olv4* 1.0 1.0 0.0 (0.0)
 cmv4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.03 0.0 0.0
 LAB*LAB 18.03 0.0 0.0
 LAB*TCa 0.01 -

relative CIELAB lab*
 lab*lab 0.0 0.0 0.0
 lab*ch 0.0 0.0 0.0
 lab*nch 1.0 0.0 0.0
 relative Natural Colour (NC)
 lab*nrj 0.0 0.0 0.0
 lab*nce 0.0 0.0 0.0
 lab*nce 1.0 0.0 -

relative Inform. Technology (IT)
 ohv3* 0.0 0.0 0.0 (1.0)
 cmv3* 1.0 1.0 0.0 (0.0)
 olv4* 1.0 1.0 0.0 (0.0)
 cmv4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.03 0.0 0.0
 LAB*LAB 18.03 0.0 0.0
 LAB*TCa 0.01 -

relative CIELAB lab*
 lab*lab 0.0 0.0 0.0
 lab*ch 0.0 0.0 0.0
 lab*nch 1.0 0.0 0.0
 relative Natural Colour (NC)
 lab*nrj 0.0 0.0 0.0
 lab*nce 0.0 0.0 0.0
 lab*nce 1.0 0.0 -

relative Inform. Technology (IT)
 ohv3* 0.0 0.0 0.0 (1.0)
 cmv3* 1.0 1.0 0.0 (0.0)
 olv4* 1.0 1.0 0.0 (0.0)
 cmv4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.03 0.0 0.0
 LAB*LAB 18.03 0.0 0.0
 LAB*TCa 0.01 -

Input: Colorimetric Offset Reflective System ORS18

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

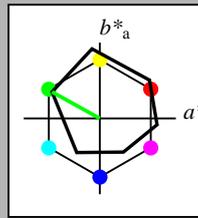
lab^*ch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

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relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

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relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

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relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

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relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

ORS18; adapted (a) CIELAB data

Table of CIELAB data for ORS18 system, including L*, a*, b* and C*ab,a, h*ab,a values for various color patches.

%Regularity

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

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

Output: Colorimetric Television Luminous System TLS18

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

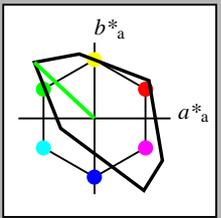
lab^*ch and lab^*nch

D65: hue L

LCH*Ma: 84 108 137

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 118$

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

relative Inform. Technology (IT) table with columns for obv, cmy, and standard/adapted CIELAB values.

TLS18; adapted (a) CIELAB data

Table of CIELAB data for TLS18 system, including L*, a*, b* and C*ab,a, h*ab,a values for various color patches.

%Regularity

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

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

NE510-7, 5 step scales for constant CIELAB hue 151/360 = 0.419 (left)

5 step scales for constant CIELAB hue 137/360 = 0.38 (right)

BAM-test chart NE51; Colorimetric systems ORS18 & TLS18

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

input: $olv^* setrgbcolor$

output: $lab^* setrgbcolor / w^* setgray$

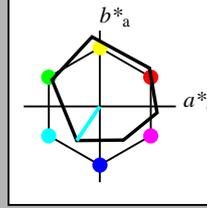
See for similar files: http://www.ps.bam.de/NE51/ Technical information: http://www.ps.bam.de Version 2.1, io=1,1, CIELAB

BAM registration: 20060101-NE51/10Q/Q51E02FP.PS/.PDF BAM material: code=rh4ta application for evaluation and measurement of printer or monitor systems /NE51/ Form 3/10, Serie: 1/1, Page: 3 Page count: 3

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 236/360 = 0.656$
 lab^*ch and lab^*nch

D65: hue C
 LCH*Ma: 59 54 236
 olv*Ma: 0.0 1.0 1.0
 triangle lightness t^*



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
RC _{IE}	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

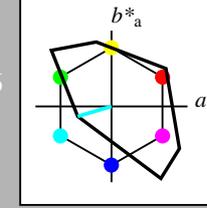
0.00

chromaticness c^*

Output: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 196/360 = 0.546$
 lab^*ch and lab^*nch

D65: hue C
 LCH*Ma: 87 46 196
 olv*Ma: 0.0 1.0 1.0
 triangle lightness t^*



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
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

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

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

1.00

0.75

$n^* = 0.00$

0.25

0.00

chromaticness c^*

relative Inform. Technology (IT)
 olv1* 1.0 1.0 1.0 (1.0)
 olv2* 0.0 0.0 0.0 (0.0)
 olv3* 1.0 1.0 1.0 (1.0)
 olv4* 0.0 0.0 0.0 (0.0)
 olv5* 1.0 1.0 1.0 (1.0)
 olv6* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 95.41 -0.98 47.5
 LAB*LABa 95.41 0.0 0.0
 LAB*TCHa 99.99 0.01 0.0

relative Inform. Technology (IT)
 olv1* 0.75 1.0 1.0 (1.0)
 olv2* 0.25 0.0 0.0 (0.0)
 olv3* 0.75 1.0 1.0 (1.0)
 olv4* 0.25 0.0 0.0 (0.0)
 olv5* 0.75 1.0 1.0 (1.0)
 olv6* 0.25 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 86.21 -8.39 -7.1
 LAB*LABa 86.21 -7.57 -11.24
 LAB*TCHa 87.5 13.57 236.02

relative Inform. Technology (IT)
 olv1* 0.5 1.0 1.0 (1.0)
 olv2* 0.5 0.0 0.0 (0.0)
 olv3* 0.5 1.0 1.0 (1.0)
 olv4* 0.5 0.0 0.0 (0.0)
 olv5* 0.5 1.0 1.0 (1.0)
 olv6* 0.5 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 77.01 -15.8 -18.98
 LAB*LABa 77.01 -15.16 -22.5
 LAB*TCHa 75.0 27.14 236.02

relative Inform. Technology (IT)
 olv1* 0.25 1.0 1.0 (1.0)
 olv2* 0.25 0.0 0.0 (0.0)
 olv3* 0.25 1.0 1.0 (1.0)
 olv4* 0.25 0.0 0.0 (0.0)
 olv5* 0.25 1.0 1.0 (1.0)
 olv6* 0.25 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 77.01 -15.8 -18.98
 LAB*LABa 77.01 -15.16 -22.5
 LAB*TCHa 75.0 27.14 236.02

relative Inform. Technology (IT)
 olv1* 0.25 0.75 0.75 (1.0)
 olv2* 0.25 0.25 0.25 (0.0)
 olv3* 0.25 0.75 0.75 (1.0)
 olv4* 0.25 0.25 0.25 (0.0)
 olv5* 0.25 0.75 0.75 (1.0)
 olv6* 0.25 0.25 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 76.07 0.0 0.0
 LAB*LABa 76.07 0.0 0.0
 LAB*TCHa 75.0 0.01 -

relative Inform. Technology (IT)
 olv1* 0.25 0.5 0.5 (0.0)
 olv2* 0.25 0.0 0.0 (0.0)
 olv3* 0.25 0.5 0.5 (0.0)
 olv4* 0.25 0.0 0.0 (0.0)
 olv5* 0.25 0.5 0.5 (0.0)
 olv6* 0.25 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 76.07 0.0 0.0
 LAB*LABa 76.07 0.0 0.0
 LAB*TCHa 75.0 0.01 -

relative Inform. Technology (IT)
 olv1* 0.25 0.25 0.25 (0.0)
 olv2* 0.25 0.0 0.0 (0.0)
 olv3* 0.25 0.25 0.25 (0.0)
 olv4* 0.25 0.0 0.0 (0.0)
 olv5* 0.25 0.25 0.25 (0.0)
 olv6* 0.25 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 76.07 0.0 0.0
 LAB*LABa 76.07 0.0 0.0
 LAB*TCHa 75.0 0.01 -

relative Inform. Technology (IT)
 olv1* 0.25 0.25 0.75 (1.0)
 olv2* 0.25 0.25 0.25 (0.0)
 olv3* 0.25 0.25 0.75 (1.0)
 olv4* 0.25 0.25 0.25 (0.0)
 olv5* 0.25 0.25 0.75 (1.0)
 olv6* 0.25 0.25 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 76.07 0.0 0.0
 LAB*LABa 76.07 0.0 0.0
 LAB*TCHa 75.0 0.01 -

relative Inform. Technology (IT)
 olv1* 0.25 0.25 0.5 (0.0)
 olv2* 0.25 0.25 0.25 (0.0)
 olv3* 0.25 0.25 0.5 (0.0)
 olv4* 0.25 0.25 0.25 (0.0)
 olv5* 0.25 0.25 0.5 (0.0)
 olv6* 0.25 0.25 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 76.07 0.0 0.0
 LAB*LABa 76.07 0.0 0.0
 LAB*TCHa 75.0 0.01 -

relative Inform. Technology (IT)
 olv1* 0.25 0.25 0.25 (1.0)
 olv2* 0.25 0.25 0.25 (0.0)
 olv3* 0.25 0.25 0.25 (1.0)
 olv4* 0.25 0.25 0.25 (0.0)
 olv5* 0.25 0.25 0.25 (1.0)
 olv6* 0.25 0.25 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 76.07 0.0 0.0
 LAB*LABa 76.07 0.0 0.0
 LAB*TCHa 75.0 0.01 -

relative Inform. Technology (IT)
 olv1* 0.75 0.75 0.75 (1.0)
 olv2* 0.25 0.25 0.25 (0.0)
 olv3* 0.75 0.75 0.75 (1.0)
 olv4* 0.25 0.25 0.25 (0.0)
 olv5* 0.75 0.75 0.75 (1.0)
 olv6* 0.25 0.25 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 76.06 -0.61 3.44
 LAB*LABa 76.06 0.0 0.0
 LAB*TCHa 75.0 0.01 -

relative Inform. Technology (IT)
 olv1* 0.75 0.75 0.75 (1.0)
 olv2* 0.25 0.25 0.25 (0.0)
 olv3* 0.75 0.75 0.75 (1.0)
 olv4* 0.25 0.25 0.25 (0.0)
 olv5* 0.75 0.75 0.75 (1.0)
 olv6* 0.25 0.25 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 86.21 -8.39 -7.1
 LAB*LABa 86.21 -7.57 -11.24
 LAB*TCHa 87.5 13.57 236.02

relative Inform. Technology (IT)
 olv1* 0.5 1.0 1.0 (1.0)
 olv2* 0.5 0.0 0.0 (0.0)
 olv3* 0.5 1.0 1.0 (1.0)
 olv4* 0.5 0.0 0.0 (0.0)
 olv5* 0.5 1.0 1.0 (1.0)
 olv6* 0.5 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 77.01 -15.8 -18.98
 LAB*LABa 77.01 -15.16 -22.5
 LAB*TCHa 75.0 27.14 236.02

relative Inform. Technology (IT)
 olv1* 0.5 0.75 0.75 (1.0)
 olv2* 0.5 0.25 0.25 (0.0)
 olv3* 0.5 0.75 0.75 (1.0)
 olv4* 0.5 0.25 0.25 (0.0)
 olv5* 0.5 0.75 0.75 (1.0)
 olv6* 0.5 0.25 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 77.01 -15.8 -18.98
 LAB*LABa 77.01 -15.16 -22.5
 LAB*TCHa 75.0 27.14 236.02

relative Inform. Technology (IT)
 olv1* 0.5 0.5 0.5 (0.0)
 olv2* 0.5 0.0 0.0 (0.0)
 olv3* 0.5 0.5 0.5 (0.0)
 olv4* 0.5 0.0 0.0 (0.0)
 olv5* 0.5 0.5 0.5 (0.0)
 olv6* 0.5 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 76.07 0.0 0.0
 LAB*LABa 76.07 0.0 0.0
 LAB*TCHa 75.0 0.01 -

relative Inform. Technology (IT)
 olv1* 0.5 0.5 0.25 (0.0)
 olv2* 0.5 0.25 0.25 (0.0)
 olv3* 0.5 0.5 0.25 (0.0)
 olv4* 0.5 0.25 0.25 (0.0)
 olv5* 0.5 0.5 0.25 (0.0)
 olv6* 0.5 0.25 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 76.07 0.0 0.0
 LAB*LABa 76.07 0.0 0.0
 LAB*TCHa 75.0 0.01 -

relative Inform. Technology (IT)
 olv1* 0.5 0.5 0.25 (1.0)
 olv2* 0.5 0.25 0.25 (0.0)
 olv3* 0.5 0.5 0.25 (1.0)
 olv4* 0.5 0.25 0.25 (0.0)
 olv5* 0.5 0.5 0.25 (1.0)
 olv6* 0.5 0.25 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 76.07 0.0 0.0
 LAB*LABa 76.07 0.0 0.0
 LAB*TCHa 75.0 0.01 -

relative Inform. Technology (IT)
 olv1* 0.5 0.5 0.5 (1.0)
 olv2* 0.5 0.5 0.5 (0.0)
 olv3* 0.5 0.5 0.5 (1.0)
 olv4* 0.5 0.5 0.5 (0.0)
 olv5* 0.5 0.5 0.5 (1.0)
 olv6* 0.5 0.5 0.5 (0.0)
 standard and adapted CIELAB
 LAB*LAB 76.07 0.0 0.0
 LAB*LABa 76.07 0.0 0.0
 LAB*TCHa 75.0 0.01 -

relative Inform. Technology (IT)
 olv1* 0.25 0.75 0.75 (1.0)
 olv2* 0.25 0.75 0.25 (0.0)
 olv3* 0.25 0.75 0.75 (1.0)
 olv4* 0.25 0.75 0.25 (0.0)
 olv5* 0.25 0.75 0.75 (1.0)
 olv6* 0.25 0.75 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 91.27 -22.2 -6.55
 LAB*LABa 91.27 -22.2 -6.55
 LAB*TCHa 75.0 23.15 196.46

relative Inform. Technology (IT)
 olv1* 0.25 0.75 0.5 (1.0)
 olv2* 0.25 0.75 0.25 (0.0)
 olv3* 0.25 0.75 0.5 (1.0)
 olv4* 0.25 0.75 0.25 (0.0)
 olv5* 0.25 0.75 0.5 (1.0)
 olv6* 0.25 0.75 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 91.27 -22.2 -6.55
 LAB*LABa 91.27 -22.2 -6.55
 LAB*TCHa 75.0 23.15 196.46

relative Inform. Technology (IT)
 olv1* 0.75 0.75 0.75 (1.0)
 olv2* 0.25 0.25 0.25 (0.0)
 olv3* 0.75 0.75 0.75 (1.0)
 olv4* 0.25 0.25 0.25 (0.0)
 olv5* 0.75 0.75 0.75 (1.0)
 olv6* 0.25 0.25 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 76.06 -0.61 3.44
 LAB*LABa 76.06 0.0 0.0
 LAB*TCHa 75.0 0.01 -

relative Inform. Technology (IT)
 olv1* 0.75 0.75 0.75 (1.0)
 olv2* 0.25 0.25 0.25 (0.0)
 olv3* 0.75 0.75 0.75 (1.0)
 olv4* 0.25 0.25 0.25 (0.0)
 olv5* 0.75 0.75 0.75 (1.0)
 olv6* 0.25 0.25 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 86.21 -8.39 -7.1
 LAB*LABa 86.21 -7.57 -11.24
 LAB*TCHa 87.5 13.57 236.02

relative Inform. Technology (IT)
 olv1* 0.5 1.0 1.0 (1.0)
 olv2* 0.5 0.0 0.0 (0.0)
 olv3* 0.5 1.0 1.0 (1.0)
 olv4* 0.5 0.0 0.0 (0.0)
 olv5* 0.5 1.0 1.0 (1.0)
 olv6* 0.5 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 77.01 -15.8 -18.98
 LAB*LABa 77.01 -15.16 -22.5
 LAB*TCHa 75.0 27.14 236.02

relative Inform. Technology (IT)
 olv1* 0.5 0.75 0.75 (1.0)
 olv2* 0.5 0.25 0.25 (0.0)
 olv3* 0.5 0.75 0.75 (1.0)
 olv4* 0.5 0.25 0.25 (0.0)
 olv5* 0.5 0.75 0.75 (1.0)
 olv6* 0.5 0.25 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 77.01 -15.8 -18.98
 LAB*LABa 77.01 -15.16 -22.5
 LAB*TCHa 75.0 27.14 236.02

relative Inform. Technology (IT)
 olv1* 0.5 0.5 0.5 (0.0)
 olv2* 0.5 0.0 0.0 (0.0)
 olv3* 0.5 0.5 0.5 (0.0)
 olv4* 0.5 0.0 0.0 (0.0)
 olv5* 0.5 0.5 0.5 (0.0)
 olv6* 0.5 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 76.07 0.0 0.0
 LAB*LABa 76.07 0.0 0.0
 LAB*TCHa 75.0 0.01 -

relative Inform. Technology (IT)
 olv1* 0.5 0.5 0.25 (0.0)
 olv2* 0.5 0.25 0.25 (0.0)
 olv3* 0.5 0.5 0.25 (0.0)
 olv4* 0.5 0.25 0.25 (0.0)
 olv5* 0.5 0.5 0.25 (0.0)
 olv6* 0.5 0.25 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 76.07 0.0 0.0
 LAB*LABa 76.07 0.0 0.0
 LAB*TCHa 75.0 0.01 -

relative Inform. Technology (IT)
 olv1* 0.5 0.5 0.25 (1.0)
 olv2* 0.5 0.25 0.25 (0.0)
 olv3* 0.5 0.5 0.25 (1.0)
 olv4* 0.5 0.25 0.25 (0.0)
 olv5* 0.5 0.5 0.25 (1.0)
 olv6* 0.5 0.25 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 76.07 0.0 0.0
 LAB*LABa 76.07 0.0 0.0
 LAB*TCHa 75.0 0.01 -

relative Inform. Technology (IT)
 olv1* 0.5 0.5 0.5 (1.0)
 olv2* 0.5 0.5 0.5 (0.0)
 olv3* 0.5 0.5 0.5 (1.0)
 olv4* 0.5 0.5 0.5 (0.0)
 olv5* 0.5 0.5 0.5 (1.0)
 olv6* 0.5 0.5 0.5 (0.0)
 standard and adapted CIELAB
 LAB*LAB 76.07 0.0 0.0
 LAB*LABa 76.07 0.0 0.0
 LAB*TCHa 75.0 0.01 -

relative Inform. Technology (IT)
 olv1* 0.25 0.75 0.75 (1.0)
 olv2* 0.25 0.75 0.25 (0.0)
 olv3* 0.25 0.75 0.75 (1.0)
 olv4* 0.25 0.75 0.25 (0.0)
 olv5* 0.25 0.75 0.75 (1.0)
 olv6* 0.25 0.75 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 91.27 -22.2 -6.55
 LAB*LABa 91.27 -22.2 -6.55
 LAB*TCHa 75.0 23.15 196.46

relative Inform. Technology (IT)
 olv1* 0.25 0.75 0.5 (1.0)
 olv2* 0.25 0.75 0.25 (0.0)
 olv3* 0.25 0.75 0.5 (1.0)
 olv4* 0.25 0.75 0.25 (0.0)
 olv5* 0.25 0.75 0.5 (1.0)
 olv6* 0.25 0.75 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 91.27 -22.2 -6.55
 LAB*LABa 91.27 -22.2 -6.55
 LAB*TCHa 75.0 23.15 196.46

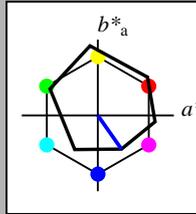
relative Inform. Technology (IT)
 olv1* 0.75 0.75 0.75 (1.0)
 olv2* 0.25 0.25 0.25 (0.0)
 olv3* 0.75 0.75 0.75 (1.0)
 olv4* 0.25 0.25 0.25 (0.0)
 olv5* 0.75 0.75 0.75 (1.0)
 olv6* 0.25 0.25 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 76.06 -0.61 3.44
 LAB*LABa 76.06 0.0 0.0
 LAB*TCHa 75.0 0.01 -

relative Inform. Technology (IT)
 olv1* 0.75 0.75 0.75 (1.0)
 olv2* 0.25 0.25 0.25 (0.0)
 olv3* 0.75 0.75 0.75 (1.0)
 olv4* 0.25 0.25 0.25 (0.0)
 olv5* 0.75 0.75 0.75 (1.0)
 olv6* 0.25 0.25 0.25 (0.0)
 standard and adapted CIELAB
 LAB*LAB 86.21 -8.39 -7.1
 LAB*LABa 86.21 -7.57 -

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 305/360 = 0.847$
 lab^*ch and lab^*nch

D65: hue V
 LCH*Ma: 26 54 305
 olv*Ma: 0.0 0.0 1.0
 triangle lightness t^*



%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
RC _{IE}	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)

ohv1*	1.0	1.0	1.0	(1.0)
ohv2*	0.0	0.0	0.0	(0.0)
ohv3*	1.0	1.0	1.0	1.0
ohv4*	1.0	1.0	1.0	1.0
ohv5*	0.0	0.0	0.0	0.0
ohv6*	0.0	0.0	0.0	0.0
ohv7*	0.0	0.0	0.0	0.0
ohv8*	0.0	0.0	0.0	0.0
ohv9*	0.0	0.0	0.0	0.0
ohv10*	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)

ohv1*	0.75	0.75	1.0	(1.0)
ohv2*	0.25	0.25	0.0	(0.0)
ohv3*	0.75	0.75	1.0	1.0
ohv4*	0.75	0.75	1.0	1.0
ohv5*	0.25	0.25	0.0	0.0
ohv6*	0.25	0.25	0.0	0.0
ohv7*	0.75	0.75	1.0	1.0
ohv8*	0.75	0.75	1.0	1.0
ohv9*	0.25	0.25	0.0	0.0
ohv10*	0.25	0.25	0.0	0.0

relative Inform. Technology (IT)

ohv1*	0.5	0.5	1.0	(1.0)
ohv2*	0.25	0.25	0.0	(0.0)
ohv3*	0.5	0.5	1.0	1.0
ohv4*	0.5	0.5	1.0	1.0
ohv5*	0.25	0.25	0.0	0.0
ohv6*	0.25	0.25	0.0	0.0
ohv7*	0.5	0.5	1.0	1.0
ohv8*	0.5	0.5	1.0	1.0
ohv9*	0.25	0.25	0.0	0.0
ohv10*	0.25	0.25	0.0	0.0

relative Inform. Technology (IT)

ohv1*	0.25	0.25	1.0	(1.0)
ohv2*	0.0	0.0	0.0	(0.0)
ohv3*	0.25	0.25	1.0	1.0
ohv4*	0.25	0.25	1.0	1.0
ohv5*	0.0	0.0	0.0	0.0
ohv6*	0.0	0.0	0.0	0.0
ohv7*	0.25	0.25	1.0	1.0
ohv8*	0.25	0.25	1.0	1.0
ohv9*	0.0	0.0	0.0	0.0
ohv10*	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)

ohv1*	0.0	0.0	1.0	(1.0)
ohv2*	0.0	0.0	0.0	(0.0)
ohv3*	0.0	0.0	1.0	1.0
ohv4*	0.0	0.0	1.0	1.0
ohv5*	0.0	0.0	0.0	0.0
ohv6*	0.0	0.0	0.0	0.0
ohv7*	0.0	0.0	1.0	1.0
ohv8*	0.0	0.0	1.0	1.0
ohv9*	0.0	0.0	0.0	0.0
ohv10*	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)

ohv1*	0.5	0.5	0.5	(0.0)
ohv2*	1.0	1.0	0.0	(0.0)
ohv3*	0.5	0.5	0.5	0.5
ohv4*	1.0	1.0	1.0	1.0
ohv5*	0.5	0.5	0.5	0.5
ohv6*	0.5	0.5	0.5	0.5
ohv7*	0.5	0.5	0.5	0.5
ohv8*	0.5	0.5	0.5	0.5
ohv9*	0.5	0.5	0.5	0.5
ohv10*	0.5	0.5	0.5	0.5

relative Inform. Technology (IT)

ohv1*	0.75	0.75	0.75	(1.0)
ohv2*	0.25	0.25	0.25	(0.0)
ohv3*	0.75	0.75	0.75	0.75
ohv4*	0.75	0.75	0.75	0.75
ohv5*	0.25	0.25	0.25	0.25
ohv6*	0.25	0.25	0.25	0.25
ohv7*	0.75	0.75	0.75	0.75
ohv8*	0.75	0.75	0.75	0.75
ohv9*	0.25	0.25	0.25	0.25
ohv10*	0.25	0.25	0.25	0.25

relative Inform. Technology (IT)

ohv1*	0.5	0.5	0.5	(1.0)
ohv2*	0.25	0.25	0.25	(0.0)
ohv3*	0.5	0.5	0.5	0.5
ohv4*	0.5	0.5	0.5	0.5
ohv5*	0.25	0.25	0.25	0.25
ohv6*	0.25	0.25	0.25	0.25
ohv7*	0.5	0.5	0.5	0.5
ohv8*	0.5	0.5	0.5	0.5
ohv9*	0.25	0.25	0.25	0.25
ohv10*	0.25	0.25	0.25	0.25

relative Inform. Technology (IT)

ohv1*	0.25	0.25	0.25	(1.0)
ohv2*	0.0	0.0	0.0	(0.0)
ohv3*	0.25	0.25	0.25	0.25
ohv4*	0.25	0.25	0.25	0.25
ohv5*	0.0	0.0	0.0	0.0
ohv6*	0.0	0.0	0.0	0.0
ohv7*	0.25	0.25	0.25	0.25
ohv8*	0.25	0.25	0.25	0.25
ohv9*	0.0	0.0	0.0	0.0
ohv10*	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)

ohv1*	0.0	0.0	0.75	(1.0)
ohv2*	0.0	0.0	0.0	(0.0)
ohv3*	0.0	0.0	0.75	0.75
ohv4*	0.0	0.0	0.75	0.75
ohv5*	0.0	0.0	0.0	0.0
ohv6*	0.0	0.0	0.0	0.0
ohv7*	0.0	0.0	0.75	0.75
ohv8*	0.0	0.0	0.75	0.75
ohv9*	0.0	0.0	0.0	0.0
ohv10*	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)

ohv1*	0.0	0.0	0.0	(1.0)
ohv2*	0.0	0.0	0.0	(0.0)
ohv3*	0.0	0.0	0.0	0.0
ohv4*	0.0	0.0	0.0	0.0
ohv5*	0.0	0.0	0.0	0.0
ohv6*	0.0	0.0	0.0	0.0
ohv7*	0.0	0.0	0.0	0.0
ohv8*	0.0	0.0	0.0	0.0
ohv9*	0.0	0.0	0.0	0.0
ohv10*	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)

ohv1*	0.25	0.25	0.25	(1.0)
ohv2*	0.75	0.75	0.75	(0.0)
ohv3*	0.25	0.25	0.25	0.25
ohv4*	0.25	0.25	0.25	0.25
ohv5*	0.75	0.75	0.75	0.75
ohv6*	0.75	0.75	0.75	0.75
ohv7*	0.25	0.25	0.25	0.25
ohv8*	0.25	0.25	0.25	0.25
ohv9*	0.75	0.75	0.75	0.75
ohv10*	0.75	0.75	0.75	0.75

relative Inform. Technology (IT)

ohv1*	0.25	0.25	0.25	(1.0)
ohv2*	0.75	0.75	0.75	(0.0)
ohv3*	0.25	0.25	0.25	0.25
ohv4*	0.25	0.25	0.25	0.25
ohv5*	0.75	0.75	0.75	0.75
ohv6*	0.75	0.75	0.75	0.75
ohv7*	0.25	0.25	0.25	0.25
ohv8*	0.25	0.25	0.25	0.25
ohv9*	0.75	0.75	0.75	0.75
ohv10*	0.75	0.75	0.75	0.75

relative Inform. Technology (IT)

ohv1*	0.5	0.5	0.5	(1.0)
ohv2*	0.25	0.25	0.25	(0.0)
ohv3*	0.5	0.5	0.5	0.5
ohv4*	0.5	0.5	0.5	0.5
ohv5*	0.25	0.25	0.25	0.25
ohv6*	0.25	0.25	0.25	0.25
ohv7*	0.5	0.5	0.5	0.5
ohv8*	0.5	0.5	0.5	0.5
ohv9*	0.25	0.25	0.25	0.25
ohv10*	0.25	0.25	0.25	0.25

relative Inform. Technology (IT)

ohv1*	0.0	0.0	0.0	(1.0)
ohv2*	0.0	0.0	0.0	(0.0)
ohv3*	0.0	0.0	0.0	0.0
ohv4*	0.0	0.0	0.0	0.0
ohv5*	0.0	0.0	0.0	0.0
ohv6*	0.0	0.0	0.0	0.0
ohv7*	0.0	0.0	0.0	0.0
ohv8*	0.0	0.0	0.0	0.0
ohv9*	0.0	0.0	0.0	0.0
ohv10*	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)

ohv1*	0.0	0.0	0.0	(1.0)
ohv2*	0.0	0.0	0.0	(0.0)
ohv3*	0.0	0.0	0.0	0.0
ohv4*	0.0	0.0	0.0	0.0
ohv5*	0.0	0.0	0.0	0.0
ohv6*	0.0	0.0	0.0	0.0
ohv7*	0.0	0.0	0.0	0.0
ohv8*	0.0	0.0	0.0	0.0
ohv9*	0.0	0.0	0.0	0.0
ohv10*	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)

ohv1*	0.0	0.0	0.0	(1.0)
ohv2*	0.0	0.0	0.0	(0.0)
ohv3*	0.0	0.0	0.0	0.0
ohv4*	0.0	0.0	0.0	0.0
ohv5*	0.0	0.0	0.0	0.0
ohv6*	0.0	0.0	0.0	0.0
ohv7*	0.0	0.0	0.0	0.0
ohv8*	0.0	0.0	0.0	0.0
ohv9*	0.0	0.0	0.0	0.0
ohv10*	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)

ohv1*	0.0	0.0	0.0	(1.0)
ohv2*	0.0	0.0	0.0	(0.0)
ohv3*	0.0	0.0	0.0	0.0
ohv4*	0.0	0.0	0.0	0.0
ohv5*	0.0	0.0	0.0	0.0
ohv6*	0.0	0.0	0.0	0.0
ohv7*	0.0	0.0	0.0	0.0
ohv8*	0.0	0.0	0.0	0.0
ohv9*	0.0	0.0	0.0	0.0
ohv10*	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)

ohv1*	0.25	0.25	0.25	(1.0)
ohv2*	0.75	0.75	0.75	(0.0)
ohv3*	0.25	0.25	0.25	0.25
ohv4*	0.25	0.25	0.25	0.25
ohv5*	0.75	0.75	0.75	0.75
ohv6*	0.75	0.75	0.75	0.75
ohv7*	0.25	0.25	0.25	0.25
ohv8*	0.25	0.25	0.25	0.25
ohv9*	0.75	0.75	0.75	0.75
ohv10*	0.75	0.75	0.75	0.75

relative Inform. Technology (IT)

ohv1*	0.5	0.5	0.5	(1.0)
ohv2*	0.25	0.25	0.25	(0.0)
ohv3*	0.5	0.5	0.5	0.5
ohv4*	0.5	0.5	0.5	0.5
ohv5*	0.25	0.25	0.25	0.25
ohv6*	0.25	0.25	0.25	0.25
ohv7*	0.5	0.5	0.5	0.5
ohv8*	0.5	0.5	0.5	0.5
ohv9*	0.25	0.25	0.25	0.25
ohv10*	0.25	0.25	0.25	0.25

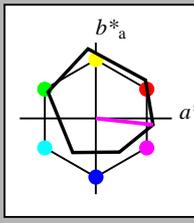
relative Inform. Technology (IT)

ohv1*	0.0	0.0	0.0	(1.0)
ohv2*	0.0	0.0	0.0	(0.0)
ohv3*	0.0	0.0	0.0	0.0
ohv4*	0.0	0.0	0.0	0.0
ohv5*	0.0	0.0	0.0	0.0
ohv6*	0.0	0.0	0.0	0.0
ohv7*	0.0	0.0	0.0	0.0
ohv8*	0.0	0.0	0.0	0.0
ohv9*				

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 354/360 = 0.982$
 lab^*ch and lab^*nch

D65: hue M
 LCH*Ma: 48 76 354
 olv*Ma: 1.0 0.0 1.0
 triangle lightness t^*



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
RC _{IE}	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)
 $olvi^*_s$ 1.0 1.0 1.0 (1.0)
 $cmyn^*_s$ 0.0 0.0 0.0 (0.0)
 $olvi^*_a$ 1.0 1.0 1.0 (1.0)
 $cmyn^*_a$ 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 95.41 -0.98 47.5
 LAB*LABa 95.41 0.0 0.0
 LAB*LABc 99.99 0.01 0.0

relative CIELAB lab*
 lab*lab 1.0 0.0 0.0
 lab*ch 1.0 0.0 0.0
 lab*nch 0.0 0.0 0.0
 relative Natural Colour (NC)
 lab*nrj 1.0 0.0 0.0
 lab*nce 1.0 0.0 0.0
 lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
 $olvi^*_s$ 0.75 0.75 0.75 (1.0)
 $cmyn^*_s$ 0.0 0.25 0.25 (0.0)
 $olvi^*_a$ 1.0 1.0 1.0 (1.0)
 $cmyn^*_a$ 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 76.06 -0.61 3.44
 LAB*LABa 76.06 0.0 0.0
 LAB*LABc 75.00 0.01 -

relative CIELAB lab*
 lab*lab 0.75 0.0 0.0
 lab*ch 0.75 0.0 0.0
 lab*nch 0.25 0.0 0.0
 relative Natural Colour (NC)
 lab*nrj 0.75 0.0 0.0
 lab*nce 0.75 0.0 0.0
 lab*nce 0.25 0.0 0.0

relative Inform. Technology (IT)
 $olvi^*_s$ 0.5 0.5 0.5 (0.0)
 $cmyn^*_s$ 0.0 1.0 1.0 (0.5)
 $olvi^*_a$ 1.0 1.0 1.0 (1.0)
 $cmyn^*_a$ 0.0 0.0 0.0 (0.5)
 standard and adapted CIELAB
 LAB*LAB 56.71 -0.24 2.14
 LAB*LABa 56.71 0.0 0.0
 LAB*LABc 75.00 0.01 -

relative CIELAB lab*
 lab*lab 0.5 0.0 0.0
 lab*ch 0.5 0.0 0.0
 lab*nch 0.0 0.0 0.5
 relative Natural Colour (NC)
 lab*nrj 0.5 0.0 0.0
 lab*nce 0.5 0.0 0.0
 lab*nce 0.0 0.0 0.5

relative Inform. Technology (IT)
 $olvi^*_s$ 0.25 0.25 0.25 (1.0)
 $cmyn^*_s$ 0.75 0.75 0.75 (1.0)
 $olvi^*_a$ 1.0 1.0 1.0 (0.25)
 $cmyn^*_a$ 0.0 0.0 0.0 (0.75)
 standard and adapted CIELAB
 LAB*LAB 37.28 0.13 0.83
 LAB*LABa 37.28 0.0 0.0
 LAB*LABc 25.00 0.01 -

relative CIELAB lab*
 lab*lab 0.25 0.0 0.0
 lab*ch 0.25 0.0 0.0
 lab*nch 0.0 0.0 0.25
 relative Natural Colour (NC)
 lab*nrj 0.25 0.0 0.0
 lab*nce 0.25 0.0 0.0
 lab*nce 0.0 0.0 0.25

relative Inform. Technology (IT)
 $olvi^*_s$ 0.0 0.0 0.0 (1.0)
 $cmyn^*_s$ 1.0 1.0 1.0 (0.0)
 $olvi^*_a$ 1.0 1.0 1.0 (0.0)
 $cmyn^*_a$ 0.0 0.0 0.0 (1.0)
 standard and adapted CIELAB
 LAB*LAB 18.02 0.0 0.47
 LAB*LABa 18.02 0.0 0.0
 LAB*LABc 0.01 0.01 -

relative CIELAB lab*
 lab*lab 0.0 0.0 0.0
 lab*ch 0.0 0.0 0.0
 lab*nch 1.0 0.0 0.0
 relative Natural Colour (NC)
 lab*nrj 0.0 0.0 0.0
 lab*nce 0.0 0.0 0.0
 lab*nce 1.0 0.0 0.0

$h^* = 1.0$

relative Inform. Technology (IT)
 $olvi^*_s$ 1.0 0.75 1.0 (1.0)
 $cmyn^*_s$ 0.0 0.25 0.0 (0.0)
 $olvi^*_a$ 1.0 0.75 1.0 (1.0)
 $cmyn^*_a$ 0.0 0.25 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 83.59 18.05 1.87
 LAB*LABa 83.59 18.81 -2.08
 LAB*LABc 87.5 18.93 353.66

relative CIELAB lab*
 lab*lab 0.847 0.248 -0.027
 lab*ch 0.875 0.25 0.982
 lab*nch 0.0 0.25 0.982
 relative Natural Colour (NC)
 lab*nrj 0.847 0.227 -0.103
 lab*nce 0.875 0.25 0.932
 lab*nce 0.0 0.25 0.972

relative Inform. Technology (IT)
 $olvi^*_s$ 0.75 0.5 0.75 (1.0)
 $cmyn^*_s$ 0.25 0.5 0.25 (0.0)
 $olvi^*_a$ 1.0 0.75 1.0 (0.75)
 $cmyn^*_a$ 0.0 0.25 0.0 (0.25)
 standard and adapted CIELAB
 LAB*LAB 64.24 18.43 0.56
 LAB*LABa 64.24 18.82 -2.08
 LAB*LABc 62.5 18.94 353.66

relative CIELAB lab*
 lab*lab 0.597 0.248 -0.027
 lab*ch 0.625 0.25 0.982
 lab*nch 0.25 0.25 0.982
 relative Natural Colour (NC)
 lab*nrj 0.597 0.227 -0.103
 lab*nce 0.625 0.25 0.932
 lab*nce 0.25 0.25 0.972

relative Inform. Technology (IT)
 $olvi^*_s$ 0.5 0.75 0.5 (1.0)
 $cmyn^*_s$ 0.25 0.75 0.25 (0.0)
 $olvi^*_a$ 1.0 0.75 1.0 (0.5)
 $cmyn^*_a$ 0.0 0.25 0.0 (0.5)
 standard and adapted CIELAB
 LAB*LAB 44.89 18.05 -0.74
 LAB*LABa 44.89 18.82 -2.08
 LAB*LABc 37.5 18.94 353.66

relative CIELAB lab*
 lab*lab 0.347 0.248 -0.027
 lab*ch 0.375 0.25 0.982
 lab*nch 0.0 0.25 0.982
 relative Natural Colour (NC)
 lab*nrj 0.347 0.227 -0.103
 lab*nce 0.375 0.25 0.932
 lab*nce 0.0 0.25 0.972

relative Inform. Technology (IT)
 $olvi^*_s$ 0.25 1.0 0.25 (1.0)
 $cmyn^*_s$ 0.75 1.0 0.75 (0.0)
 $olvi^*_a$ 1.0 0.75 1.0 (0.25)
 $cmyn^*_a$ 0.0 0.25 0.0 (0.75)
 standard and adapted CIELAB
 LAB*LAB 25.75 23.03 0.83
 LAB*LABa 25.75 23.03 0.83
 LAB*LABc 12.5 18.93 353.66

relative CIELAB lab*
 lab*lab 0.097 0.248 -0.027
 lab*ch 0.125 0.25 0.982
 lab*nch 0.0 0.25 0.982
 relative Natural Colour (NC)
 lab*nrj 0.125 0.25 0.932
 lab*nce 0.125 0.25 0.932
 lab*nce 0.0 0.25 0.972

relative Inform. Technology (IT)
 $olvi^*_s$ 0.0 1.0 0.0 (1.0)
 $cmyn^*_s$ 1.0 1.0 1.0 (0.0)
 $olvi^*_a$ 1.0 1.0 1.0 (0.0)
 $cmyn^*_a$ 0.0 0.0 0.0 (1.0)
 standard and adapted CIELAB
 LAB*LAB 18.02 0.0 0.47
 LAB*LABa 18.02 0.0 0.0
 LAB*LABc 0.01 0.01 -

relative CIELAB lab*
 lab*lab 0.0 0.0 0.0
 lab*ch 0.0 0.0 0.0
 lab*nch 1.0 0.0 0.0
 relative Natural Colour (NC)
 lab*nrj 0.0 0.0 0.0
 lab*nce 0.0 0.0 0.0
 lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
 $olvi^*_s$ 1.0 0.5 1.0 (1.0)
 $cmyn^*_s$ 0.0 0.5 0.0 (0.0)
 $olvi^*_a$ 1.0 0.5 1.0 (1.0)
 $cmyn^*_a$ 0.0 0.5 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 71.77 37.63 -4.17
 LAB*LABa 71.77 37.63 -4.17
 LAB*LABc 75.0 37.86 353.66

relative CIELAB lab*
 lab*lab 0.695 0.497 -0.054
 lab*ch 0.75 0.5 0.982
 lab*nch 0.0 0.5 0.982
 relative Natural Colour (NC)
 lab*nrj 0.695 0.454 -0.208
 lab*nce 0.75 0.5 0.932
 lab*nce 0.0 0.5 0.972

relative Inform. Technology (IT)
 $olvi^*_s$ 1.0 0.25 1.0 (1.0)
 $cmyn^*_s$ 0.0 0.25 0.0 (0.0)
 $olvi^*_a$ 1.0 0.25 1.0 (1.0)
 $cmyn^*_a$ 0.0 0.25 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 59.95 56.15 -3.9
 LAB*LABa 59.95 56.45 -6.26
 LAB*LABc 62.5 56.8 353.66

relative CIELAB lab*
 lab*lab 0.542 0.745 -0.082
 lab*ch 0.625 0.75 0.982
 lab*nch 0.0 0.75 0.982
 relative Natural Colour (NC)
 lab*nrj 0.542 0.682 -0.312
 lab*nce 0.625 0.75 0.932
 lab*nce 0.0 0.75 0.972

relative Inform. Technology (IT)
 $olvi^*_s$ 0.75 0.0 0.75 (1.0)
 $cmyn^*_s$ 0.25 1.0 0.25 (0.0)
 $olvi^*_a$ 1.0 0.75 1.0 (0.0)
 $cmyn^*_a$ 0.0 0.75 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 40.6 56.52 -5.21
 LAB*LABa 40.6 56.45 -6.26
 LAB*LABc 37.51 56.8 353.66

relative CIELAB lab*
 lab*lab 0.292 0.745 -0.082
 lab*ch 0.375 0.75 0.982
 lab*nch 0.0 0.75 0.982
 relative Natural Colour (NC)
 lab*nrj 0.292 0.682 -0.312
 lab*nce 0.375 0.75 0.932
 lab*nce 0.0 0.75 0.972

relative Inform. Technology (IT)
 $olvi^*_s$ 0.5 1.0 0.5 (1.0)
 $cmyn^*_s$ 0.25 1.0 0.25 (0.0)
 $olvi^*_a$ 1.0 0.5 1.0 (0.5)
 $cmyn^*_a$ 0.0 0.5 0.0 (0.5)
 standard and adapted CIELAB
 LAB*LAB 33.07 37.84 -3.62
 LAB*LABa 33.07 37.63 -4.17
 LAB*LABc 25.01 37.86 353.66

relative CIELAB lab*
 lab*lab 0.195 0.497 -0.054
 lab*ch 0.25 0.5 0.982
 lab*nch 0.0 0.5 0.982
 relative Natural Colour (NC)
 lab*nrj 0.195 0.454 -0.208
 lab*nce 0.25 0.5 0.932
 lab*nce 0.0 0.5 0.972

relative Inform. Technology (IT)
 $olvi^*_s$ 0.25 0.0 0.25 (1.0)
 $cmyn^*_s$ 0.75 1.0 0.75 (0.0)
 $olvi^*_a$ 1.0 0.25 1.0 (0.25)
 $cmyn^*_a$ 0.0 0.25 0.0 (0.75)
 standard and adapted CIELAB
 LAB*LAB 18.03 0.0 0.47
 LAB*LABa 18.03 0.0 0.0
 LAB*LABc 0.01 0.01 -

relative CIELAB lab*
 lab*lab 0.0 0.0 0.0
 lab*ch 0.0 0.0 0.0
 lab*nch 1.0 0.0 0.0
 relative Natural Colour (NC)
 lab*nrj 0.0 0.0 0.0
 lab*nce 0.0 0.0 0.0
 lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
 $olvi^*_s$ 1.0 0.0 1.0 (1.0)
 $cmyn^*_s$ 0.0 0.0 0.0 (0.0)
 $olvi^*_a$ 1.0 0.0 1.0 (1.0)
 $cmyn^*_a$ 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*LABc 99.99 0.01 0.0

relative CIELAB lab*
 lab*lab 1.0 0.0 0.0
 lab*ch 1.0 0.0 0.0
 lab*nch 0.0 0.0 0.0
 relative Natural Colour (NC)
 lab*nrj 1.0 0.0 0.0
 lab*nce 1.0 0.0 0.0
 lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
 $olvi^*_s$ 0.75 0.0 0.75 (1.0)
 $cmyn^*_s$ 0.25 0.0 0.25 (0.0)
 $olvi^*_a$ 1.0 0.0 1.0 (0.75)
 $cmyn^*_a$ 0.0 0.0 0.0 (0.25)
 standard and adapted CIELAB
 LAB*LAB 76.07 0.0 0.0
 LAB*LABa 76.07 0.0 0.0
 LAB*LABc 75.00 0.01 -

relative CIELAB lab*
 lab*lab 0.75 0.0 0.0
 lab*ch 0.75 0.0 0.0
 lab*nch 0.25 0.0 0.0
 relative Natural Colour (NC)
 lab*nrj 0.75 0.0 0.0
 lab*nce 0.75 0.0 0.0
 lab*nce 0.25 0.0 0.0

relative Inform. Technology (IT)
 $olvi^*_s$ 0.5 0.5 0.5 (0.0)
 $cmyn^*_s$ 0.5 0.5 0.5 (0.0)
 $olvi^*_a$ 1.0 1.0 1.0 (0.5)
 $cmyn^*_a$ 0.0 0.5 0.0 (0.5)
 standard and adapted CIELAB
 LAB*LAB 56.72 0.0 0.0
 LAB*LABa 56.72 0.0 0.0
 LAB*LABc 75.00 0.01 -

relative CIELAB lab*
 lab*lab 0.5 0.0 0.0
 lab*ch 0.5 0.0 0.0
 lab*nch 0.0 0.0 0.5
 relative Natural Colour (NC)
 lab*nrj 0.5 0.0 0.0
 lab*nce 0.5 0.0 0.0
 lab*nce 0.0 0.0 0.5

relative Inform. Technology (IT)
 $olvi^*_s$ 0.25 0.25 0.25 (1.0)
 $cmyn^*_s$ 0.75 0.75 0.75 (1.0)
 $olvi^*_a$ 1.0 1.0 1.0 (0.25)
 $cmyn^*_a$ 0.0 0.25 0.0 (0.75)
 standard and adapted CIELAB
 LAB*LAB 37.28 0.13 0.83
 LAB*LABa 37.28 0.0 0.0
 LAB*LABc 25.00 0.01 -

relative CIELAB lab*
 lab*lab 0.25 0.0 0.0
 lab*ch 0.25 0.0 0.0
 lab*nch 0.0 0.0 0.25
 relative Natural Colour (NC)
 lab*nrj 0.25 0.0 0.0
 lab*nce 0.25 0.0 0.0
 lab*nce 0.0 0.0 0.25

relative Inform. Technology (IT)
 $olvi^*_s$ 0.0 0.0 0.0 (1.0)
 $cmyn^*_s$ 1.0 1.0 1.0 (0.0)
 $olvi^*_a$ 1.0 1.0 1.0 (0.0)
 $cmyn^*_a$ 0.0 0.0 0.0 (1.0)
 standard and adapted CIELAB
 LAB*LAB 18.03 0.0 0.47
 LAB*LABa 18.03 0.0 0.0
 LAB*LABc 0.01 0.01 -

relative CIELAB lab*
 lab*lab 0.0 0.0 0.0
 lab*ch 0.0 0.0 0.0
 lab*nch 1.0 0.0 0.0
 relative Natural Colour (NC)
 lab*nrj 0.0 0.0 0.0
 lab*nce 0.0 0.0 0.0
 lab*nce 1.0 0.0 0.0

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

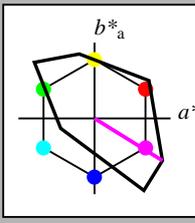
$n^* = 1.00$

blackness n^*

Output: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 328/360 = 0.911$
 lab^*ch and lab^*nch

D65: hue M
 LCH*Ma: 59 105 328
 olv*Ma: 1.0 0.0 1.0
 triangle lightness t^*



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	103.2	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
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

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

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

relative Inform. Technology (IT)
 $olvi^*_s$ 1.0 1.0 1.0 (1.0)
 $cmyn^*_s$ 0.0 0.0 0.0 (0.0)
 $olvi^*_a$ 1.0 1.0 1.0 (1.0)
 $cmyn^*_a$ 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*LABc 99.99 0.01 0.0

relative CIELAB lab*
 lab*lab 1.0 0.0 0.0
 lab*ch 1.0 0.0 0.0
 lab*nch 0.0 0.0 0.0
 relative Natural Colour (NC)
 lab*nrj 1.0 0.0 0.0
 lab*nce 1.0 0.0 0.0
 lab*nce 0.0 0.0 0.0

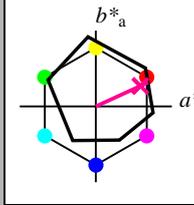
relative Inform. Technology (IT)
 $olvi^*_s$ 0.75 0.75 0.75 (1.0)
 $cmyn^*_s$ 0.0 0.25 0.25 (0.0)
 $olvi^*_a$ 1.0 1.0 1.0 (1.0)
 $cmyn^*_a$ 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 76.07 0.0 0.0
 LAB*LABa 76.07 0.0 0.0
 LAB*LABc 75.00 0.01 -

relative CIELAB lab*
 lab*

Input: Colorimetric Offset Reflective System ORS18

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

D65: hue R
 LCH*Ma: 48 75 25
 olv*Ma: 1.0 0.0 0.32
 triangle lightness t^*



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
RCIE	39.92	58.66	26.98	64.57	25
JCIE	81.26	-2.16	67.76	67.79	92
GCIE	52.23	-42.25	11.76	43.87	164
BCIE	30.57	1.15	-46.84	46.86	271

%Regularity

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

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

relative Inform. Technology (IT)
 olv^{3*} 1.0 1.0 1.0 (1.0)
 cmv^{3*} 0.0 0.0 0.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 95.41 -0.98 47.5
 LAB*LABa 95.41 0.0 0.0
 LAB*LABc 99.99 0.01 -

relative Inform. Technology (IT)
 olv^{3*} 1.0 0.75 0.831 (1.0)
 cmv^{3*} 0.0 0.25 0.169 (0.0)
 olv^{4*} 1.0 0.75 0.831 (1.0)
 cmv^{4*} 0.0 0.25 0.169 (0.0)
 standard and adapted CIELAB
 LAB*LAB 83.55 17.34 7.88
 LAB*LABa 87.5 18.86 24.69

relative Inform. Technology (IT)
 olv^{3*} 1.0 0.5 0.661 (1.0)
 cmv^{3*} 0.0 0.5 0.339 (0.0)
 olv^{4*} 1.0 0.5 0.661 (1.0)
 cmv^{4*} 0.0 0.5 0.339 (0.0)
 standard and adapted CIELAB
 LAB*LAB 71.7 33.75 18.92
 LAB*LABa 71.7 34.28 15.76
 LAB*LABc 75.0 37.73 24.7

relative Inform. Technology (IT)
 olv^{3*} 1.0 0.25 0.492 (1.0)
 cmv^{3*} 0.0 0.75 0.508 (0.0)
 olv^{4*} 1.0 0.25 0.492 (1.0)
 cmv^{4*} 0.0 0.75 0.508 (0.0)
 standard and adapted CIELAB
 LAB*LAB 59.85 51.12 26.01
 LAB*LABa 59.85 51.42 23.65
 LAB*LABc 62.5 26.6 24.7

relative Inform. Technology (IT)
 olv^{3*} 1.0 0.0 0.322 (1.0)
 cmv^{3*} 0.0 1.0 0.678 (0.0)
 olv^{4*} 1.0 0.0 0.322 (1.0)
 cmv^{4*} 0.0 1.0 0.678 (0.0)
 standard and adapted CIELAB
 LAB*LAB 48.0 68.48 33.09
 LAB*LABa 48.0 68.56 31.53
 LAB*LABc 50.0 75.47 24.7

relative Inform. Technology (IT)
 olv^{3*} 0.5 0.5 0.5 (0.0)
 cmv^{3*} 0.5 0.5 0.5 (1.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 56.72 0.0 0.0
 LAB*LABa 56.72 0.0 0.0
 LAB*LABc 50.0 0.0 1.0

relative Inform. Technology (IT)
 olv^{3*} 0.75 0.75 0.75 (1.0)
 cmv^{3*} 0.25 0.25 0.25 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 76.06 -0.61 3.44
 LAB*LABa 76.06 0.0 0.0
 LAB*LABc 75.0 0.01 -

relative Inform. Technology (IT)
 olv^{3*} 0.75 0.5 0.569 (1.0)
 cmv^{3*} 0.25 0.5 0.431 (0.0)
 olv^{4*} 1.0 0.75 0.831 (1.0)
 cmv^{4*} 0.0 0.25 0.169 (0.0)
 standard and adapted CIELAB
 LAB*LAB 64.21 16.75 10.54
 LAB*LABa 64.21 17.14 7.88
 LAB*LABc 62.5 18.87 24.7

relative Inform. Technology (IT)
 olv^{3*} 0.75 0.25 0.411 (1.0)
 cmv^{3*} 0.25 0.75 0.589 (0.0)
 olv^{4*} 1.0 0.5 0.661 (1.0)
 cmv^{4*} 0.0 0.5 0.339 (0.0)
 standard and adapted CIELAB
 LAB*LAB 52.36 34.13 17.62
 LAB*LABa 52.36 34.29 15.77
 LAB*LABc 50.0 37.74 24.7

relative Inform. Technology (IT)
 olv^{3*} 0.5 0.5 0.5 (0.0)
 cmv^{3*} 0.5 0.5 0.5 (1.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 48.0 68.48 33.09
 LAB*LABa 48.0 68.56 31.53
 LAB*LABc 50.0 75.47 24.7

relative Inform. Technology (IT)
 olv^{3*} 0.5 0.25 0.25 (1.0)
 cmv^{3*} 0.25 0.75 0.75 (0.0)
 olv^{4*} 1.0 0.5 0.661 (1.0)
 cmv^{4*} 0.0 0.5 0.339 (0.0)
 standard and adapted CIELAB
 LAB*LAB 40.57 51.49 24.71
 LAB*LABa 40.51 51.42 23.65
 LAB*LABc 37.51 26.6 24.7

relative Inform. Technology (IT)
 olv^{3*} 0.25 0.25 0.25 (1.0)
 cmv^{3*} 0.75 0.75 0.75 (0.0)
 olv^{4*} 1.0 0.25 0.492 (1.0)
 cmv^{4*} 0.0 0.75 0.508 (0.0)
 standard and adapted CIELAB
 LAB*LAB 37.51 26.6 24.7
 LAB*LABa 37.51 26.6 24.7
 LAB*LABc 30.0 0.0 1.0

relative Inform. Technology (IT)
 olv^{3*} 0.5 0.5 0.5 (0.0)
 cmv^{3*} 0.5 0.5 0.5 (1.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 56.71 -0.24 2.14
 LAB*LABa 56.71 0.0 0.0
 LAB*LABc 50.0 0.01 -

relative Inform. Technology (IT)
 olv^{3*} 0.5 0.25 0.25 (1.0)
 cmv^{3*} 0.25 0.75 0.75 (0.0)
 olv^{4*} 1.0 0.5 0.661 (1.0)
 cmv^{4*} 0.0 0.5 0.339 (0.0)
 standard and adapted CIELAB
 LAB*LAB 44.86 33.13 9.25
 LAB*LABa 44.86 33.13 9.25
 LAB*LABc 37.5 18.87 24.7

relative Inform. Technology (IT)
 olv^{3*} 0.25 0.0 0.161 (1.0)
 cmv^{3*} 0.5 1.0 0.839 (0.0)
 olv^{4*} 1.0 0.25 0.492 (1.0)
 cmv^{4*} 0.0 0.75 0.508 (0.0)
 standard and adapted CIELAB
 LAB*LAB 33.01 34.49 16.31
 LAB*LABa 33.01 34.28 15.77
 LAB*LABc 25.01 37.73 24.7

relative Inform. Technology (IT)
 olv^{3*} 0.25 0.25 0.25 (1.0)
 cmv^{3*} 0.75 0.75 0.75 (0.0)
 olv^{4*} 1.0 0.25 0.492 (1.0)
 cmv^{4*} 0.0 0.75 0.508 (0.0)
 standard and adapted CIELAB
 LAB*LAB 33.01 34.49 16.31
 LAB*LABa 33.01 34.28 15.77
 LAB*LABc 25.01 37.73 24.7

relative Inform. Technology (IT)
 olv^{3*} 0.25 0.0 0.0 (1.0)
 cmv^{3*} 0.75 1.0 0.965 (0.0)
 olv^{4*} 1.0 0.25 0.492 (1.0)
 cmv^{4*} 0.0 0.75 0.508 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.02 18.03 0.47
 LAB*LABa 18.02 18.03 0.47
 LAB*LABc 0.01 0.01 -

relative Inform. Technology (IT)
 olv^{3*} 0.25 0.25 0.25 (1.0)
 cmv^{3*} 0.75 0.75 0.75 (0.0)
 olv^{4*} 1.0 0.25 0.492 (1.0)
 cmv^{4*} 0.0 0.75 0.508 (0.0)
 standard and adapted CIELAB
 LAB*LAB 37.51 26.6 24.7
 LAB*LABa 37.51 26.6 24.7
 LAB*LABc 30.0 0.0 1.0

relative Inform. Technology (IT)
 olv^{3*} 0.25 0.0 0.0 (1.0)
 cmv^{3*} 0.75 1.0 0.919 (0.0)
 olv^{4*} 1.0 0.25 0.492 (1.0)
 cmv^{4*} 0.0 0.75 0.508 (0.0)
 standard and adapted CIELAB
 LAB*LAB 25.75 17.14 7.88
 LAB*LABa 25.75 17.14 7.88
 LAB*LABc 12.5 18.86 24.71

relative Inform. Technology (IT)
 olv^{3*} 0.25 0.0 0.0 (1.0)
 cmv^{3*} 0.75 1.0 0.919 (0.0)
 olv^{4*} 1.0 0.25 0.492 (1.0)
 cmv^{4*} 0.0 0.75 0.508 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.02 18.03 0.47
 LAB*LABa 18.02 18.03 0.47
 LAB*LABc 0.01 0.01 -

relative Inform. Technology (IT)
 olv^{3*} 0.0 0.0 0.0 (1.0)
 cmv^{3*} 1.0 1.0 1.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.02 18.03 0.47
 LAB*LABa 18.02 18.03 0.47
 LAB*LABc 0.01 0.01 -

relative Inform. Technology (IT)
 olv^{3*} 0.0 0.0 0.0 (1.0)
 cmv^{3*} 1.0 1.0 1.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.03 0.0 0.0
 LAB*LABa 18.03 0.0 0.0
 LAB*LABc 1.0 0.0 0.0

relative Inform. Technology (IT)
 olv^{3*} 0.0 0.0 0.0 (1.0)
 cmv^{3*} 1.0 1.0 1.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.03 0.0 0.0
 LAB*LABa 18.03 0.0 0.0
 LAB*LABc 1.0 0.0 0.0

relative Inform. Technology (IT)
 olv^{3*} 0.0 0.0 0.0 (1.0)
 cmv^{3*} 1.0 1.0 1.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.02 18.03 0.47
 LAB*LABa 18.02 18.03 0.47
 LAB*LABc 0.01 0.01 -

relative Inform. Technology (IT)
 olv^{3*} 0.0 0.0 0.0 (1.0)
 cmv^{3*} 1.0 1.0 1.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.02 18.03 0.47
 LAB*LABa 18.02 18.03 0.47
 LAB*LABc 0.01 0.01 -

relative Inform. Technology (IT)
 olv^{3*} 0.0 0.0 0.0 (1.0)
 cmv^{3*} 1.0 1.0 1.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.03 0.0 0.0
 LAB*LABa 18.03 0.0 0.0
 LAB*LABc 1.0 0.0 0.0

relative Inform. Technology (IT)
 olv^{3*} 0.0 0.0 0.0 (1.0)
 cmv^{3*} 1.0 1.0 1.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.03 0.0 0.0
 LAB*LABa 18.03 0.0 0.0
 LAB*LABc 1.0 0.0 0.0

relative Inform. Technology (IT)
 olv^{3*} 0.0 0.0 0.0 (1.0)
 cmv^{3*} 1.0 1.0 1.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.02 18.03 0.47
 LAB*LABa 18.02 18.03 0.47
 LAB*LABc 0.01 0.01 -

relative Inform. Technology (IT)
 olv^{3*} 0.0 0.0 0.0 (1.0)
 cmv^{3*} 1.0 1.0 1.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.02 18.03 0.47
 LAB*LABa 18.02 18.03 0.47
 LAB*LABc 0.01 0.01 -

relative Inform. Technology (IT)
 olv^{3*} 0.0 0.0 0.0 (1.0)
 cmv^{3*} 1.0 1.0 1.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.03 0.0 0.0
 LAB*LABa 18.03 0.0 0.0
 LAB*LABc 1.0 0.0 0.0

relative Inform. Technology (IT)
 olv^{3*} 0.0 0.0 0.0 (1.0)
 cmv^{3*} 1.0 1.0 1.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.03 0.0 0.0
 LAB*LABa 18.03 0.0 0.0
 LAB*LABc 1.0 0.0 0.0

relative Inform. Technology (IT)
 olv^{3*} 0.0 0.0 0.0 (1.0)
 cmv^{3*} 1.0 1.0 1.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.02 18.03 0.47
 LAB*LABa 18.02 18.03 0.47
 LAB*LABc 0.01 0.01 -

relative Inform. Technology (IT)
 olv^{3*} 0.0 0.0 0.0 (1.0)
 cmv^{3*} 1.0 1.0 1.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.02 18.03 0.47
 LAB*LABa 18.02 18.03 0.47
 LAB*LABc 0.01 0.01 -

relative Inform. Technology (IT)
 olv^{3*} 0.0 0.0 0.0 (1.0)
 cmv^{3*} 1.0 1.0 1.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.03 0.0 0.0
 LAB*LABa 18.03 0.0 0.0
 LAB*LABc 1.0 0.0 0.0

relative Inform. Technology (IT)
 olv^{3*} 0.0 0.0 0.0 (1.0)
 cmv^{3*} 1.0 1.0 1.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.03 0.0 0.0
 LAB*LABa 18.03 0.0 0.0
 LAB*LABc 1.0 0.0 0.0

relative Inform. Technology (IT)
 olv^{3*} 0.0 0.0 0.0 (1.0)
 cmv^{3*} 1.0 1.0 1.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.02 18.03 0.47
 LAB*LABa 18.02 18.03 0.47
 LAB*LABc 0.01 0.01 -

relative Inform. Technology (IT)
 olv^{3*} 0.0 0.0 0.0 (1.0)
 cmv^{3*} 1.0 1.0 1.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.02 18.03 0.47
 LAB*LABa 18.02 18.03 0.47
 LAB*LABc 0.01 0.01 -

relative Inform. Technology (IT)
 olv^{3*} 0.0 0.0 0.0 (1.0)
 cmv^{3*} 1.0 1.0 1.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.03 0.0 0.0
 LAB*LABa 18.03 0.0 0.0
 LAB*LABc 1.0 0.0 0.0

relative Inform. Technology (IT)
 olv^{3*} 0.0 0.0 0.0 (1.0)
 cmv^{3*} 1.0 1.0 1.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.03 0.0 0.0
 LAB*LABa 18.03 0.0 0.0
 LAB*LABc 1.0 0.0 0.0

relative Inform. Technology (IT)
 olv^{3*} 0.0 0.0 0.0 (1.0)
 cmv^{3*} 1.0 1.0 1.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.02 18.03 0.47
 LAB*LABa 18.02 18.03 0.47
 LAB*LABc 0.01 0.01 -

relative Inform. Technology (IT)
 olv^{3*} 0.0 0.0 0.0 (1.0)
 cmv^{3*} 1.0 1.0 1.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.02 18.03 0.47
 LAB*LABa 18.02 18.03 0.47
 LAB*LABc 0.01 0.01 -

relative Inform. Technology (IT)
 olv^{3*} 0.0 0.0 0.0 (1.0)
 cmv^{3*} 1.0 1.0 1.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.03 0.0 0.0
 LAB*LABa 18.03 0.0 0.0
 LAB*LABc 1.0 0.0 0.0

relative Inform. Technology (IT)
 olv^{3*} 0.0 0.0 0.0 (1.0)
 cmv^{3*} 1.0 1.0 1.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.03 0.0 0.0
 LAB*LABa 18.03 0.0 0.0
 LAB*LABc 1.0 0.0 0.0

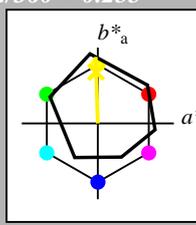
relative Inform. Technology (IT)
 olv^{3*} 0.0 0.0 0.0 (1.0)
 cmv^{3*} 1.0 1.0 1.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.02 18.03 0.47
 LAB*LABa 18.02 18.03 0.47
 LAB*LABc 0.01 0.01 -

relative Inform. Technology (IT)
 olv^{3*} 0.0 0.0 0.0 (1.0)
 cmv^{3*} 1.0 1.0 1.0 (0.0)
 olv^{4*} 1.0 1.0 1.0 (1.0)
 cmv^{4*} 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.02 18.03 0.4

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 92/360 = 0.255$
 lab^*ch and lab^*nch

D65: hue J
 LCH*Ma: 86 88 92
 olv*Ma: 1.0 0.9 0.0
 triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.39	50.52	82.63	38
YMa	90.37	-10.26	91.75	92.32	96
LMa	50.9	-62.83	34.96	71.91	151
CMa	58.62	-30.34	-45.01	54.3	236
VMa	25.72	31.1	-44.4	54.22	305
MMa	48.13	75.28	-8.36	75.74	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.57	25
JCIE	81.26	-2.16	67.76	67.79	92
GCIE	52.23	-42.25	11.76	43.87	164
BCIE	30.57	1.15	-46.84	46.86	271

%Regularity

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

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

relative Inform. Technology (IT)
 $olv^*_{10} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{20} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{30} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{40} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{50} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{60} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{70} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{80} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{90} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{100} 0.0$ 0.0 0.0 (0.0)

standard and adapted CIELAB
 LAB^*LAB 95.41 -0.98 47.5
 LAB^*LAB 95.41 0.0 0.0
 LAB^*TCh 99.99 0.01 -

relative CIELAB lab^*
 lab^*lab 1.0 0.0 0.0
 lab^*ch 1.0 0.0 -

relative Inform. Technology (IT)
 $olv^*_{10} 0.75$ 0.75 0.75 (1.0)
 $olv^*_{20} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{30} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{40} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{50} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{60} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{70} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{80} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{90} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{100} 0.0$ 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^*TCh 75.00 0.01 -

relative CIELAB lab^*
 lab^*lab 0.75 0.0 0.0
 lab^*ch 0.75 0.0 0.0
 lab^*nch 0.25 0.0 0.0

relative Inform. Technology (IT)
 $olv^*_{10} 0.75$ 0.75 0.75 (1.0)
 $olv^*_{20} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{30} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{40} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{50} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{60} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{70} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{80} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{90} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{100} 0.0$ 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^*TCh 55.00 0.01 -

relative CIELAB lab^*
 lab^*lab 0.5 0.0 0.0
 lab^*ch 0.5 0.0 0.0
 lab^*nch 0.5 0.0 0.0

relative Inform. Technology (IT)
 $olv^*_{10} 0.5$ 0.5 0.5 (1.0)
 $olv^*_{20} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{30} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{40} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{50} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{60} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{70} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{80} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{90} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{100} 0.0$ 0.0 0.0 (0.0)

standard and adapted CIELAB
 LAB^*LAB 37.36 -0.38 1.83
 LAB^*LAB 37.36 0.0 0.0
 LAB^*TCh 35.00 0.01 -

relative CIELAB lab^*
 lab^*lab 0.25 0.0 0.0
 lab^*ch 0.25 0.0 0.0
 lab^*nch 0.25 0.0 0.0

relative Inform. Technology (IT)
 $olv^*_{10} 0.25$ 0.25 0.25 (1.0)
 $olv^*_{20} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{30} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{40} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{50} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{60} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{70} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{80} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{90} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{100} 0.0$ 0.0 0.0 (0.0)

standard and adapted CIELAB
 LAB^*LAB 18.02 0.0 0.0
 LAB^*LAB 18.02 0.0 0.0
 LAB^*TCh 18.00 0.01 -

relative CIELAB lab^*
 lab^*lab 0.0 0.0 0.0
 lab^*ch 0.0 0.0 0.0
 lab^*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
 $olv^*_{10} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{20} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{30} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{40} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{50} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{60} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{70} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{80} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{90} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{100} 0.0$ 0.0 0.0 (0.0)

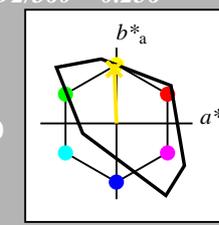
standard and adapted CIELAB
 LAB^*LAB 18.02 0.0 0.0
 LAB^*LAB 18.02 0.0 0.0
 LAB^*TCh 18.00 0.01 -

relative CIELAB lab^*
 lab^*lab 0.0 0.0 0.0
 lab^*ch 0.0 0.0 0.0
 lab^*nch 0.0 0.0 0.0

Output: Colorimetric Reflective Luminous System TLS18

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

D65: hue J
 LCH*Ma: 85 79 92
 olv*Ma: 1.0 0.82 0.0
 triangle lightness t^*



TLS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	52.76	71.63	49.88	87.29	35
YMa	92.74	-20.02	84.97	87.3	103
LMa	84.0	-78.98	73.94	108.2	137
CMa	87.14	-44.41	-13.11	46.32	196
VMa	35.47	64.92	-95.06	115.12	304
MMa	59.01	89.33	-55.67	105.26	328
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

%Regularity

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

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

relative Inform. Technology (IT)
 $olv^*_{10} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{20} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{30} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{40} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{50} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{60} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{70} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{80} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{90} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{100} 0.0$ 0.0 0.0 (0.0)

standard and adapted CIELAB
 LAB^*LAB 95.41 0.0 0.0
 LAB^*LAB 95.41 0.0 0.0
 LAB^*TCh 99.99 0.01 -

relative CIELAB lab^*
 lab^*lab 1.0 0.0 0.0
 lab^*ch 1.0 0.0 -

relative Inform. Technology (IT)
 $olv^*_{10} 0.75$ 0.75 0.75 (1.0)
 $olv^*_{20} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{30} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{40} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{50} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{60} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{70} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{80} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{90} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{100} 0.0$ 0.0 0.0 (0.0)

standard and adapted CIELAB
 LAB^*LAB 76.07 0.0 0.0
 LAB^*LAB 76.07 0.0 0.0
 LAB^*TCh 75.00 0.01 -

relative CIELAB lab^*
 lab^*lab 0.75 0.0 0.0
 lab^*ch 0.75 0.0 0.0
 lab^*nch 0.25 0.0 0.0

relative Inform. Technology (IT)
 $olv^*_{10} 0.75$ 0.75 0.75 (1.0)
 $olv^*_{20} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{30} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{40} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{50} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{60} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{70} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{80} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{90} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{100} 0.0$ 0.0 0.0 (0.0)

standard and adapted CIELAB
 LAB^*LAB 56.70 0.0 0.0
 LAB^*LAB 56.70 0.0 0.0
 LAB^*TCh 55.00 0.01 -

relative CIELAB lab^*
 lab^*lab 0.5 0.0 0.0
 lab^*ch 0.5 0.0 0.0
 lab^*nch 0.5 0.0 0.0

relative Inform. Technology (IT)
 $olv^*_{10} 0.5$ 0.5 0.5 (1.0)
 $olv^*_{20} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{30} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{40} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{50} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{60} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{70} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{80} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{90} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{100} 0.0$ 0.0 0.0 (0.0)

standard and adapted CIELAB
 LAB^*LAB 37.30 0.0 0.0
 LAB^*LAB 37.30 0.0 0.0
 LAB^*TCh 35.00 0.01 -

relative CIELAB lab^*
 lab^*lab 0.25 0.0 0.0
 lab^*ch 0.25 0.0 0.0
 lab^*nch 0.25 0.0 0.0

relative Inform. Technology (IT)
 $olv^*_{10} 0.25$ 0.25 0.25 (1.0)
 $olv^*_{20} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{30} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{40} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{50} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{60} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{70} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{80} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{90} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{100} 0.0$ 0.0 0.0 (0.0)

standard and adapted CIELAB
 LAB^*LAB 18.03 0.0 0.0
 LAB^*LAB 18.03 0.0 0.0
 LAB^*TCh 18.00 0.01 -

relative CIELAB lab^*
 lab^*lab 0.0 0.0 0.0
 lab^*ch 0.0 0.0 0.0
 lab^*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
 $olv^*_{10} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{20} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{30} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{40} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{50} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{60} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{70} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{80} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{90} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{100} 0.0$ 0.0 0.0 (0.0)

relative Inform. Technology (IT)
 $olv^*_{10} 0.95$ 0.95 0.95 (1.0)
 $olv^*_{20} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{30} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{40} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{50} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{60} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{70} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{80} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{90} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{100} 0.0$ 0.0 0.0 (0.0)

standard and adapted CIELAB
 LAB^*LAB 90.39 -1.58 39.25
 LAB^*LAB 90.39 -1.58 39.25
 LAB^*TCh 87.5 19.64 92.33

relative CIELAB lab^*
 lab^*lab 0.95 0.0 0.5
 lab^*ch 0.95 0.0 0.5
 lab^*nch 0.0 0.5 0.256

relative Inform. Technology (IT)
 $olv^*_{10} 0.75$ 0.75 0.75 (1.0)
 $olv^*_{20} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{30} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{40} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{50} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{60} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{70} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{80} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{90} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{100} 0.0$ 0.0 0.0 (0.0)

standard and adapted CIELAB
 LAB^*LAB 71.05 -1.58 39.26
 LAB^*LAB 71.05 -1.58 39.26
 LAB^*TCh 62.5 19.64 92.31

relative CIELAB lab^*
 lab^*lab 0.75 0.0 0.5
 lab^*ch 0.75 0.0 0.5
 lab^*nch 0.0 0.5 0.256

relative Inform. Technology (IT)
 $olv^*_{10} 0.5$ 0.5 0.5 (1.0)
 $olv^*_{20} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{30} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{40} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{50} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{60} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{70} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{80} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{90} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{100} 0.0$ 0.0 0.0 (0.0)

standard and adapted CIELAB
 LAB^*LAB 37.35 0.0 0.5
 LAB^*LAB 37.35 0.0 0.5
 LAB^*TCh 37.51 58.93 92.31

relative CIELAB lab^*
 lab^*lab 0.5 0.0 0.5
 lab^*ch 0.5 0.0 0.5
 lab^*nch 0.0 0.5 0.256

relative Inform. Technology (IT)
 $olv^*_{10} 0.95$ 0.95 0.95 (1.0)
 $olv^*_{20} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{30} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{40} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{50} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{60} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{70} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{80} 0.0$ 0.0 0.0 (0.0)
 $olv^*_{90} 1.0$ 1.0 1.0 (1.0)
 $olv^*_{100} 0.0$ 0.0 0.0 (0.0)

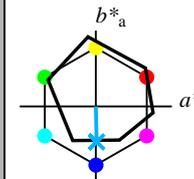
standard and adapted CIELAB
 LAB^*LAB 90.39 -1.58 39.25
 LAB^*LAB 90.39 -1.58 39.25
 LAB^*TCh 87.5 19.64 92.33

relative CIELAB lab^*
 lab^*lab 0.95 0.0 0.5
 lab^*ch 0.9

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 271/360 = 0.754$
 lab^*ch and lab^*nch

D65: hue B
LCH*Ma: 42 45 271
olv*Ma: 0.0 0.49 1.0
triangle lightness t^*



ORS18; adapted (a) CIELAB data

Table with 6 columns: L*, a*, b*, C*ab,a, h*ab,a. Rows include Ma, Y, L, C, V, M, N, W, R, J, G, B CIE values.

%Regularity

$g^*_{H,rel} = 57$
 $g^*_{C,rel} = 59$

relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

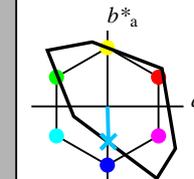
relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

Output: Colorimetric Television Luminous System TLS18

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

D65: hue B
LCH*Ma: 65 48 272
olv*Ma: 0.0 0.58 1.0
triangle lightness t^*



TLS18; adapted (a) CIELAB data

Table with 6 columns: L*, a*, b*, C*ab,a, h*ab,a. Rows include Ma, Y, L, C, V, M, N, W, R, J, G, B CIE values.

%Regularity

$g^*_{H,rel} = 22$
 $g^*_{C,rel} = 40$

relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

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relative Inform. Technology (IT) table with columns for obvi3*, cmyn3*, olvi4*, cmyn4*, and LAB*LAB values.

NE510-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

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

BAM-test chart NE51; Colorimetric systems ORS18 & TLS18

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

input: $olv^* setrgbcolor$

output: $lab^* setrgbcolor / w^* setgray$

See for similar files: http://www.ps.bam.de/NE51/ Technical information: http://www.ps.bam.de

Version 2.1, io=1,1, CIELAB

BAM registration: 20060101-NE51/10Q/Q51E09FP.PS/.PDF application for evaluation and measurement of printer or monitor systems