

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 88/360 = 0.246$

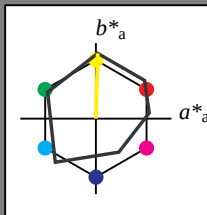
lab^*tch and lab^*nch

A: hue Y

LCH*Ma: 93 86 88

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	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252

%Regularity

$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	95.6	0.43	4.65
LAB*LAB	95.6	0.0	0.0
LAB*LAB	95.6	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	94.85	1.04	26.19
LAB*LAB	94.85	0.0	21.58
LAB*LAB	94.85	0.0	21.58

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	94.85	1.04	26.19
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olv4*	1.0	1.0	0.75	(1.0)
olv4*	0.0	0.0	0.75	(0.0)
olv5*	1.0	1.0	0.75	(1.0)
olv5*	0.0	0.0	0.75	(0.0)

standard and adapted CIELAB

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relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	94.85	1.04	26.19
LAB*LAB	94.85	0.0	21.58
LAB*LAB	94.85	0.0	21.58

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 94/360 = 0.261$

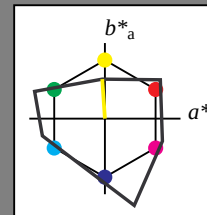
lab^*tch and lab^*nch

A: hue Y

LCH*Ma: 95 52 94

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	77.48	-92.97	36.0	99.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253

%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	95.41	0.0	0.0
LAB*LAB	95.41	0.0	0.0
LAB*LAB	95.41	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	95.41	0.0	0.0
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relative Inform. Technology (IT)

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

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

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LAB*LAB	95.41	0.0	0.0
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relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	76.23	0.62	3.36
LAB*LAB	76.23	0.0	0.0
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relative Inform. Technology (IT)

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

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olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
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olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
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olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
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olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
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olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
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standard and adapted CIELAB

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olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
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standard and adapted CIELAB

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

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relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	56.86	0.8	2.08
LAB*LAB	56.86	0.0	0.0
LAB*LAB	56.86	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0
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Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 227/360 = 0.631$

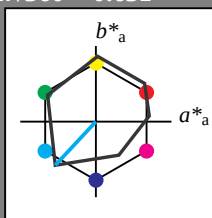
lab^*tch and lab^*nch

A: hue C

LCH*Ma: 51 79 227

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	64.42	50.58	81.9	38
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L _{Ma}	50.9	-63.82	35.02	72.81	151
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V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252

%Regularity

$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	95.6	0.43	4.65
LAB*LAB	95.6	0.0	0.0
LAB*LAB	95.6	0.0	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0

relative Natural Colour (NC)

lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	76.23	0.62	3.36
LAB*LAB	76.23	0.0	0.0
LAB*LAB	76.23	0.0	0.0

relative CIELAB lab*

lab*lab	0.857	-0.169	-0.182
lab*lab	0.875	0.25	0.631
lab*lab	0.875	0.25	0.631

relative Natural Colour (NC)

lab*lab	0.857	-0.169	-0.182
lab*lab	0.875	0.25	0.631
lab*lab	0.875	0.25	0.631

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	56.86	0.8	2.08
LAB*LAB	56.86	0.0	0.0
LAB*LAB	56.86	0.0	0.0

relative CIELAB lab*

lab*lab	0.607	-0.122	-0.217
lab*lab	0.625	0.25	0.631
lab*lab	0.625	0.25	0.631

relative Natural Colour (NC)

lab*lab	0.607	-0.122	-0.217
lab*lab	0.625	0.25	0.631
lab*lab	0.625	0.25	0.631

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	37.49	0.79	0.79
LAB*LAB	37.49	0.0	0.0
LAB*LAB	37.49	0.0	0.0

relative CIELAB lab*

lab*lab	0.357	-0.122	-0.217
lab*lab	0.375	0.25	0.631
lab*lab	0.375	0.25	0.631

relative Natural Colour (NC)

lab*lab	0.357	-0.122	-0.217
lab*lab	0.375	0.25	0.631
lab*lab	0.375	0.25	0.631

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	18.12	0.8	0.49
LAB*LAB	18.12	0.0	0.0
LAB*LAB	18.12	0.0	0.0

relative CIELAB lab*

lab*lab	0.107	-0.169	-0.182
lab*lab	0.125	0.25	0.631
lab*lab	0.125	0.25	0.631

relative Natural Colour (NC)

lab*lab	0.107	-0.169	-0.182
lab*lab	0.125	0.25	0.631
lab*lab	0.125	0.25	0.631

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	0.01	0.01	0.01
LAB*LAB	0.01	0.0	0.0
LAB*LAB	0.01	0.0	0.0

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	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*lab	0.0	0.0	0.0

SE500-7, 5 step scales for constant CIELAB hue 227/360 = 0.631 (left)

BAM-test chart SE50; Colorimetric systems ORS18 & ORS18

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

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 195/360 = 0.543$

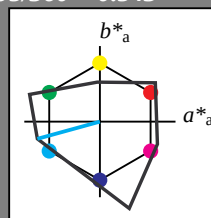
lab^*tch and lab^*nch

A: hue C

LCH*Ma: 78 86 195

olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	77.48	-92.97	36.0	99.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253

%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	95.41	0.0	0.0
LAB*LAB	95.41	0.0	0.0
LAB*LAB	95.41	0.0	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0

relative Natural Colour (NC)

lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	71.57	0.0	0.0
LAB*LAB	71.57	0.0	0.0
LAB*LAB	71.57	0.0	0.0

relative CIELAB lab*

lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	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*lab	0.75	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LAB	47.72	0.0	0.0
LAB*LAB	47.72	0.0	0.0

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0

relative Natural Colour (NC)

lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	31.66	0.36	0.36
LAB*LAB	31.66	0.0	0.0
LAB*LAB	31.66	0.0	0.0

relative CIELAB lab*

lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0

relative Natural Colour (NC)

lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	0.03	0.0	0.0
LAB*LAB	0.03	0.0	0.0
LAB*LAB	0.03	0.0	0.0

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	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*lab	0.0	0.0	0.0

5 step scales for constant CIELAB hue 195/360 = 0.543 (right)

input: `cmv0* setcmykcolor`

output: `Startup (S) data dependend`

Input: Colorimetric Offset Reflective System ORS18

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

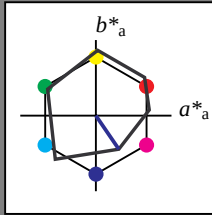
$\text{lab} \cdot \text{tch}$ and $\text{lab} \cdot \text{nch}$

A: hue V

LCH*Ma: 26 54 304

olv*Ma: 0.0 0.0 1.0

triangle lightness t^*



% Gamut

$u^*_{\text{rel}} = 96$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.6 0.43 4.65
LAB*LABa 95.6 0.0 0.0
LAB*LABb 99.99 0.01 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 1.0 0.0 0.0
lab*tce 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.23 0.62 3.36
LAB*LABa 76.23 0.0 0.0
LAB*LABb 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
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.75 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.86 0.8 2.08
LAB*LABa 56.86 0.0 0.0
LAB*LABb 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
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*tce 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.48 1.0 0.79
LAB*LABa 37.48 0.0 0.0
LAB*LABb 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
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*tce 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.12 0.8 0.49
LAB*LABa 18.12 0.0 0.0
LAB*LABb 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

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

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
RC _{IE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252

% Regularity

$g^*_{H,\text{rel}} = -385$

$g^*_{C,\text{rel}} = 62$

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 60.66 15.94 -19.84
LAB*LABa 60.66 15.17 -22.17
LAB*LABb 58.75 13.43 304.36

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (1.0)
lab*tch 0.5 0.5 0.5 (0.0)
lab*nch 0.0 0.5 0.845
relative Natural Colour (NC)
lab*trj 0.5 0.5 0.5 (0.0)
lab*tce 0.5 0.5 0.842
lab*nce 0.0 0.5 0.845

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 41.29 15.17 -22.18
LAB*LABa 41.29 15.17 -22.18
LAB*LABb 38.75 13.43 304.36

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (1.0)
lab*tch 0.25 0.25 0.25 (0.0)
lab*nch 0.0 0.25 0.845
relative Natural Colour (NC)
lab*trj 0.25 0.25 0.25 (0.0)
lab*tce 0.25 0.25 0.842
lab*nce 0.0 0.25 0.845

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olv4* 0.25 0.25 0.25 (1.0)
cmyn4* 0.75 0.75 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 23.82 23.82 -33.38
LAB*LABa 23.82 23.82 -33.38
LAB*LABb 21.51 40.31 304.36

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*tch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.845
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (0.0)
lab*tce 0.0 0.0 0.842
lab*nce 0.0 0.0 0.845

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 21.51 16.31 -11.42
LAB*LABa 21.51 16.31 -11.42
LAB*LABb 20.02 7.58 -11.08

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*tch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.845
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (0.0)
lab*tce 0.0 0.0 0.842
lab*nce 0.0 0.0 0.845

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

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*tch 0.0 0.0 0.0 (0.0)
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (0.0)
lab*tce 0.0 0.0 0.0 (0.0)
lab*nce 1.0 0.0 0.0

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = \text{lab} \cdot h = 289/360 = 0.802$

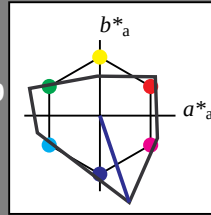
$\text{lab} \cdot \text{tch}$ and $\text{lab} \cdot \text{nch}$

A: hue V

LCH*Ma: 13 121 289

olv*Ma: 0.0 0.0 1.0

triangle lightness t^*



% Gamut

$u^*_{\text{rel}} = 141$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 1.0 0.0 0.0
lab*tce 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*LABb 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
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.75 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 50.85 0.0 0.0
LAB*LABa 50.85 0.0 0.0
LAB*LABb 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
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*tce 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 30.33 0.0 0.0
LAB*LABa 30.33 0.0 0.0
LAB*LABb 30.0 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
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*tce 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 23.82 23.82 -33.38
LAB*LABa 23.82 23.82 -33.38
LAB*LABb 21.51 40.31 304.36

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*tch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.845
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (0.0)
lab*tce 0.0 0.0 0.842
lab*nce 0.0 0.0 0.845

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

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*tch 0.0 0.0 0.0 (0.0)
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (0.0)
lab*tce 0.0 0.0 0.0 (0.0)
lab*nce 1.0 0.0 0.0

TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	77.48	-92.97	36.0	99.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RC _{IE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253

% Regularity

$g^*_{H,\text{rel}} = 39$

$g^*_{C,\text{rel}} = 43$

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 53.98 19.4 -57.39
LAB*LABa 53.98 19.4 -57.39
LAB*LABb 50.85 9.7 -28.67

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (1.0)
lab*tch 0.5 0.5 0.5 (0.0)
lab*nch 0.0 0.5 0.802
relative Natural Colour (NC)
lab*trj 0.5 0.5 0.5 (0.0)
lab*tce 0.5 0.5 0.813
lab*nce 0.0 0.5 0.825

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 30.33 19.41 -57.4
LAB*LABa 30.33 19.41 -57.4
LAB*LABb 30.0 60.6 288.68

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (1.0)
lab*tch 0.25 0.25 0.25 (0.0)
lab*nch 0.0 0.25 0.802
relative Natural Colour (NC)
lab*trj 0.25 0.25 0.25 (0.0)
lab*tce 0.25 0.25 0.813
lab*nce 0.0 0.25 0.825

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 23.82 23.82 -33.38
LAB*LABa 23.82 23.82 -33.38
LAB*LABb 21.51 40.31 304.36

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*tch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.802
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (0.0)
lab*tce 0.0 0.0 0.813
lab*nce 0.0 0.0 0.825

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

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*tch 0.0 0.0 0.0 (0.0)
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (0.0)
lab*tce 0.0 0.0 0.0 (0.0)
lab*nce 1.0 0.0 0.0

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

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*tch 0.0 0.0 0.0 (0.0)
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (0.0)
lab*tce 0.0 0.0 0.0 (0.0)
lab*nce 1.0 0.0 0.0

BAM-test chart SE50; Colorimetric systems ORS18 & ORS18

A: C coordinate data of 5 step colour scales for 10 hues

input: $\text{cmy}0^* \text{ setcmykcolor}$

output: *Startup (S) data dependend*

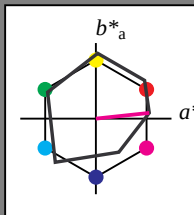
Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 6/360 = 0.017$ lab^*tch and lab^*nch

A: hue M

LCH*Ma: 56 71 6

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	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252

%Regularity

 $g^*_{H,rel} = -385$ $g^*_{C,rel} = 62$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmv3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.6 0.43 4.65
LAB*LABa 95.6 0.0 0.0
LAB*LABb 95.6 0.0 0.0
LAB*LABc 95.6 0.0 0.0
LAB*LABd 95.6 0.0 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 1.0 0.0 0.0
lab*tce 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.23 0.62 3.36
LAB*LABa 76.23 0.0 0.0
LAB*LABb 76.23 0.0 0.0
LAB*LABc 76.23 0.0 0.0
LAB*LABd 76.23 0.0 0.0

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

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmv3* 0.5 0.5 0.5 (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 56.86 0.8 2.08
LAB*LABa 56.86 0.0 0.0
LAB*LABb 56.86 0.0 0.0
LAB*LABc 56.86 0.0 0.0
LAB*LABd 56.86 0.0 0.0

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

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmv3* 0.75 0.75 0.75 (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 37.48 1.0 0.79
LAB*LABa 37.48 0.0 0.0
LAB*LABb 37.48 0.0 0.0
LAB*LABc 37.48 0.0 0.0
LAB*LABd 37.48 0.0 0.0

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmv3* 1.0 1.0 1.0 (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 18.12 0.8 4.9
LAB*LABa 18.12 0.0 0.0
LAB*LABb 18.12 0.0 0.0
LAB*LABc 18.12 0.0 0.0
LAB*LABd 18.12 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmv3* 1.0 1.0 1.0 (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 18.12 0.8 4.9
LAB*LABa 18.12 0.0 0.0
LAB*LABb 18.12 0.0 0.0
LAB*LABc 18.12 0.0 0.0
LAB*LABd 18.12 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmv3* 1.0 1.0 1.0 (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 18.12 0.8 4.9
LAB*LABa 18.12 0.0 0.0
LAB*LABb 18.12 0.0 0.0
LAB*LABc 18.12 0.0 0.0
LAB*LABd 18.12 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmv3* 1.0 1.0 1.0 (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 18.12 0.8 4.9
LAB*LABa 18.12 0.0 0.0
LAB*LABb 18.12 0.0 0.0
LAB*LABc 18.12 0.0 0.0
LAB*LABd 18.12 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 1.0 0.75 1.0 (1.0)
cmv3* 0.0 0.25 0.0 (0.0)
olv4* 1.0 0.75 1.0 (1.0)
cmv4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 85.76 18.17 5.9
LAB*LABa 85.76 0.0 0.0
LAB*LABb 85.76 0.0 0.0
LAB*LABc 85.76 0.0 0.0
LAB*LABd 85.76 0.0 0.0

relative CIELAB lab*
lab*lab 1.0 0.75 1.0
lab*tch 0.875 0.25 0.017
lab*nch 0.0 0.25 0.017
relative Natural Colour (NC)
lab*trj 0.875 0.238 -0.075
lab*tce 0.875 0.25 0.951
lab*nce 0.0 0.25 0.951

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 0.75 1.0 (1.0)
cmv4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 66.39 18.36 4.61
LAB*LABa 66.39 0.0 0.0
LAB*LABb 66.39 0.0 0.0
LAB*LABc 66.39 0.0 0.0
LAB*LABd 66.39 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 0.75 1.0
lab*tch 0.625 0.25 0.017
lab*nch 0.25 0.25 0.017
relative Natural Colour (NC)
lab*trj 0.625 0.238 -0.075
lab*tce 0.625 0.25 0.951
lab*nce 0.25 0.25 0.951

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmv3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 0.75 1.0 (1.0)
cmv4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.55 36.1 5.85
LAB*LABa 56.55 0.0 0.0
LAB*LABb 56.55 0.0 0.0
LAB*LABc 56.55 0.0 0.0
LAB*LABd 56.55 0.0 0.0

relative CIELAB lab*
lab*lab 0.5 0.5 1.0
lab*tch 0.625 0.25 0.017
lab*nch 0.25 0.25 0.017
relative Natural Colour (NC)
lab*trj 0.625 0.238 -0.075
lab*tce 0.625 0.25 0.951
lab*nce 0.25 0.25 0.951

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmv3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 0.75 1.0 (1.0)
cmv4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.02 18.35 3.32
LAB*LABa 47.02 0.0 0.0
LAB*LABb 47.02 0.0 0.0
LAB*LABc 47.02 0.0 0.0
LAB*LABd 47.02 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.25 1.0
lab*tch 0.375 0.25 0.017
lab*nch 0.75 0.25 0.017
relative Natural Colour (NC)
lab*trj 0.375 0.238 -0.075
lab*tce 0.375 0.25 0.951
lab*nce 0.75 0.25 0.951

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.0 (1.0)
cmv3* 0.75 1.0 0.75 (0.0)
olv4* 1.0 0.75 1.0 (1.0)
cmv4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 27.18 36.28 4.3
LAB*LABa 27.18 0.0 0.0
LAB*LABb 27.18 0.0 0.0
LAB*LABc 27.18 0.0 0.0
LAB*LABd 27.18 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.25 1.0
lab*tch 0.125 0.25 0.017
lab*nch 0.75 0.25 0.017
relative Natural Colour (NC)
lab*trj 0.125 0.238 -0.075
lab*tce 0.125 0.25 0.951
lab*nce 0.75 0.25 0.951

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmv3* 1.0 1.0 1.0 (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 18.12 0.8 4.9
LAB*LABa 18.12 0.0 0.0
LAB*LABb 18.12 0.0 0.0
LAB*LABc 18.12 0.0 0.0
LAB*LABd 18.12 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmv3* 1.0 1.0 1.0 (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 18.12 0.8 4.9
LAB*LABa 18.12 0.0 0.0
LAB*LABb 18.12 0.0 0.0
LAB*LABc 18.12 0.0 0.0
LAB*LABd 18.12 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmv3* 1.0 1.0 1.0 (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 18.12 0.8 4.9
LAB*LABa 18.12 0.0 0.0
LAB*LABb 18.12 0.0 0.0
LAB*LABc 18.12 0.0 0.0
LAB*LABd 18.12 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmv3* 1.0 1.0 1.0 (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 18.12 0.8 4.9
LAB*LABa 18.12 0.0 0.0
LAB*LABb 18.12 0.0 0.0
LAB*LABc 18.12 0.0 0.0
LAB*LABd 18.12 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmv3* 1.0 1.0 1.0 (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 18.12 0.8 4.9
LAB*LABa 18.12 0.0 0.0
LAB*LABb 18.12 0.0 0.0
LAB*LABc 18.12 0.0 0.0
LAB*LABd 18.12 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmv3* 1.0 1.0 1.0 (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 18.12 0.8 4.9
LAB*LABa 18.12 0.0 0.0
LAB*LABb 18.12 0.0 0.0
LAB*LABc 18.12 0.0 0.0
LAB*LABd 18.12 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmv3* 1.0 1.0 1.0 (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 18.12 0.8 4.9
LAB*LABa 18.12 0.0 0.0
LAB*LABb 18.12 0.0 0.0
LAB*LABc 18.12 0.0 0.0

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab \cdot h = 34/360 = 0.095$

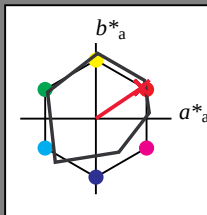
$lab \cdot tch$ and $lab \cdot nch$

A: hue R

LCH*Ma: 49 79 34

olv*Ma: 1.0 0.0 0.15

triangle lightness t^*



$u^*_{rel} = 96$

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	1.0
olv4*	0.0	0.0	0.0	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	95.6	0.43	4.65
LAB*LAB	95.6	0.0	0.0
LAB*LAB	95.6	0.0	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.788	(1.0)
olv3*	0.0	0.25	0.212	(0.0)
olv4*	1.0	0.75	0.788	1.0
olv4*	0.0	0.25	0.212	0.0
olv4*	0.0	0.25	0.212	0.0

standard and adapted CIELAB

LAB*LAB	83.99	16.87	14.91
LAB*LAB	83.99	16.87	14.91
LAB*LAB	83.99	16.87	14.91

relative CIELAB lab*

lab*lab	0.85	0.207	0.14
lab*lab	0.875	0.25	0.095
lab*lab	0.875	0.25	0.095

relative Natural Colour (NC)

lab*trj	0.85	0.25	0.0
lab*trj	0.875	0.25	0.0
lab*trj	0.875	0.25	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	76.23	0.62	3.36
LAB*LAB	76.23	0.0	0.0
LAB*LAB	76.23	0.0	0.0

relative CIELAB lab*

lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.75	0.0	0.0
lab*trj	0.75	0.0	0.0
lab*trj	0.75	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	56.86	0.8	2.08
LAB*LAB	56.86	0.0	0.0
LAB*LAB	56.86	0.0	0.0

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.5	0.0	0.0
lab*trj	0.5	0.0	0.0
lab*trj	0.5	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	56.86	0.8	2.08
LAB*LAB	56.86	0.0	0.0
LAB*LAB	56.86	0.0	0.0

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.5	0.0	0.0
lab*trj	0.5	0.0	0.0
lab*trj	0.5	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	56.86	0.8	2.08
LAB*LAB	56.86	0.0	0.0
LAB*LAB	56.86	0.0	0.0

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.5	0.0	0.0
lab*trj	0.5	0.0	0.0
lab*trj	0.5	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	56.86	0.8	2.08
LAB*LAB	56.86	0.0	0.0
LAB*LAB	56.86	0.0	0.0

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.5	0.0	0.0
lab*trj	0.5	0.0	0.0
lab*trj	0.5	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	56.86	0.8	2.08
LAB*LAB	56.86	0.0	0.0
LAB*LAB	56.86	0.0	0.0

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.5	0.0	0.0
lab*trj	0.5	0.0	0.0
lab*trj	0.5	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	56.86	0.8	2.08
LAB*LAB	56.86	0.0	0.0
LAB*LAB	56.86	0.0	0.0

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.5	0.0	0.0
lab*trj	0.5	0.0	0.0
lab*trj	0.5	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	56.86	0.8	2.08
LAB*LAB	56.86	0.0	0.0
LAB*LAB	56.86	0.0	0.0

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.5	0.0	0.0
lab*trj	0.5	0.0	0.0
lab*trj	0.5	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	56.86	0.8	2.08
LAB*LAB	56.86	0.0	0.0
LAB*LAB	56.86	0.0	0.0

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.5	0.0	0.0
lab*trj	0.5	0.0	0.0
lab*trj	0.5	0.0	0.0

ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
RC _{IE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252

%Regularity

$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

relative Inform. Technology (IT)

olv3*	1.0	0.5	0.575	(1.0)
olv3*	0.0	0.5	0.425	(0.0)
olv4*	1.0	1.0	1.0	1.0
olv4*	0.0	0.0	0.0	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	72.39	33.32	25.17
LAB*LAB	72.39	33.32	25.17
LAB*LAB	72.39	33.32	25.17

relative CIELAB lab*

lab*lab	0.7	0.414	0.28
lab*lab	0.75	0.5	0.095
lab*lab	0.75	0.5	0.095

relative Natural Colour (NC)

lab*trj	0.7	0.5	0.0
lab*trj	0.75	0.5	0.0
lab*trj	0.75	0.5	0.0

relative Inform. Technology (IT)

olv3*	1.0	0.5	0.575	(1.0)
olv3*	0.0	0.5	0.425	(0.0)
olv4*	1.0	1.0	1.0	1.0
olv4*	0.0	0.0	0.0	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	60.79	49.77	35.43
LAB*LAB	60.79	49.77	35.43
LAB*LAB	60.79	49.77	35.43

relative CIELAB lab*

lab*lab	0.551	0.622	0.42
lab*lab	0.625	0.75	0.095
lab*lab	0.625	0.75	0.095

relative Natural Colour (NC)

lab*trj	0.551	0.75	0.0
lab*trj	0.625	0.75	0.0
lab*trj	0.625	0.75	0.0

relative Inform. Technology (IT)

olv3*	1.0	0.5	0.575	(1.0)
olv3*	0.0	0.5	0.425	(0.0)
olv4*	1.0	1.0	1.0	1.0
olv4*	0.0	0.0	0.0	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	49.15	66.21	45.68
LAB*LAB	49.15	66.21	45.68
LAB*LAB	49.15	66.21	45.68

relative CIELAB lab*

lab*lab	0.401	0.829	0.559
lab*lab	0.5	1.0	0.095
lab*lab	0.5	1.0	0.095

relative Natural Colour (NC)

lab*trj	0.401	1.0	0.0
lab*trj	0.5	1.0	0.0
lab*trj	0.5	1.0	0.0

relative Inform. Technology (IT)

olv3*	1.0	0.5	0.575	(1.0)
olv3*	0.0	0.5	0.425	(0.0)
olv4*	1.0	1.0	1.0	1.0
olv4*	0.0	0.0	0.0	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	41.42	49.36	34.14
LAB*LAB	41.42	49.36	34.14
LAB*LAB	41.42	49.36	34.14

relative CIELAB lab*

lab*lab	0.301	0.622	0.42
lab*lab	0.375	0.75	0.095
lab*lab	0.375	0.75	0.095

relative Natural Colour (NC)

lab*trj	0.301	0.75	0.0
lab*trj	0.375	0.75	0.0
lab*trj	0.375	0.75	0.0

relative Inform. Technology (IT)

olv3*	1.0	0.5	0.575	(1.0)
olv3*	0.0	0.5	0.425	(0.0)
olv4*	1.0	1.0	1.0	1.0
olv4*	0.0	0.0	0.0	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	33.65	32.67	22.06
LAB*LAB	33.65	32.67	22.06
LAB*LAB	33.65	32.67	22.06

relative CIELAB lab*

lab*lab	0.201	0.414	0.28
lab*lab	0.25	0.5	0.095
lab*lab	0.25	0.5	0.095

relative Natural Colour (NC)

lab*trj	0.201	0.5	0.0
lab*trj	0.25	0.5	0.0
lab*trj	0.25	0.5	0.0

relative Inform. Technology (IT)

olv3*	1.0	0.5	0.575	(1.0)
olv3*	0.0	0.5	0.425	(0.0)
olv4*	1.0	1.0	1.0	1.0
olv4*	0.0	0.0	0.0	0.0
olv4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	25.01	39.
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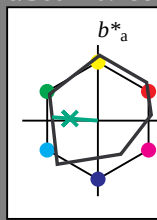
Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 176/360 = 0.488$ lab^*tch and lab^*nch

A: hue G

LCH*Ma: 51 61 176

olv*Ma: 0.0 1.0 0.33

triangle lightness t^* 

% Gamut

 $u^*_{rel} = 96$

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi5*	0.0	0.0	0.0	(0.0)
LAB*LAB	95.6	0.43	4.65	
LAB*LAB	95.6	0.0	0.0	
LAB*LAB	99.9	0.01	0.0	

relative CIELAB lab*

lab*lab	1.0	0.0	0.0	
lab*lab	1.0	0.0	0.0	
lab*lab	1.0	0.0	0.0	
lab*lab	1.0	0.0	0.0	
lab*lab	1.0	0.0	0.0	
lab*lab	1.0	0.0	0.0	
lab*lab	1.0	0.0	0.0	
lab*lab	1.0	0.0	0.0	
lab*lab	1.0	0.0	0.0	
lab*lab	1.0	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi5*	0.0	0.0	0.0	(0.0)
LAB*LAB	76.23	0.62	3.36	
LAB*LAB	76.23	0.0	0.0	
LAB*LAB	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*lab	0.75	0.0	0.0	
lab*lab	0.75	0.0	0.0	
lab*lab	0.75	0.0	0.0	
lab*lab	0.75	0.0	0.0	
lab*lab	0.75	0.0	0.0	
lab*lab	0.75	0.0	0.0	
lab*lab	0.75	0.0	0.0	
lab*lab	0.75	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.5	0.5	0.5	(0.0)
olvi3*	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi5*	0.0	0.0	0.0	(0.0)
LAB*LAB	56.86	0.8	2.08	
LAB*LAB	56.86	0.0	0.0	
LAB*LAB	55.0	0.01	0.0	

relative CIELAB lab*

lab*lab	0.5	0.0	0.0	
lab*lab	0.5	0.0	0.0	
lab*lab	0.5	0.0	0.0	
lab*lab	0.5	0.0	0.0	
lab*lab	0.5	0.0	0.0	
lab*lab	0.5	0.0	0.0	
lab*lab	0.5	0.0	0.0	
lab*lab	0.5	0.0	0.0	
lab*lab	0.5	0.0	0.0	
lab*lab	0.5	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
olvi3*	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi5*	0.0	0.0	0.0	(0.0)
LAB*LAB	37.49	1.8	0.79	
LAB*LAB	37.49	0.0	0.0	
LAB*LAB	35.0	0.01	0.0	

relative CIELAB lab*

lab*lab	0.25	0.0	0.0	
lab*lab	0.25	0.0	0.0	
lab*lab	0.25	0.0	0.0	
lab*lab	0.25	0.0	0.0	
lab*lab	0.25	0.0	0.0	
lab*lab	0.25	0.0	0.0	
lab*lab	0.25	0.0	0.0	
lab*lab	0.25	0.0	0.0	
lab*lab	0.25	0.0	0.0	
lab*lab	0.25	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
olvi3*	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi5*	0.0	0.0	0.0	(0.0)
LAB*LAB	18.12	0.8	0.49	
LAB*LAB	18.12	0.0	0.0	
LAB*LAB	15.0	0.01	0.0	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
olvi3*	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi5*	0.0	0.0	0.0	(0.0)
LAB*LAB	18.12	0.8	0.49	
LAB*LAB	18.12	0.0	0.0	
LAB*LAB	15.0	0.01	0.0	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	

ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252

%Regularity

 $g^*_{H,rel} = -385$ $g^*_{C,rel} = 62$

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi5*	0.0	0.0	0.0	(0.0)
LAB*LAB	73.3	-29.59	5.45	
LAB*LAB	73.3	-30.23	2.28	
LAB*LAB	75.0	30.33	175.69	

relative CIELAB lab*

lab*lab	0.75	0.0	0.0	
lab*lab	0.75	0.0	0.0	
lab*lab	0.75	0.0	0.0	
lab*lab	0.75	0.0	0.0	
lab*lab	0.75	0.0	0.0	
lab*lab	0.75	0.0	0.0	
lab*lab	0.75	0.0	0.0	
lab*lab	0.75	0.0	0.0	
lab*lab	0.75	0.0	0.0	
lab*lab	0.75	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.5	0.5	0.5	(0.0)
olvi3*	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi5*	0.0	0.0	0.0	(0.0)
LAB*LAB	53.93	-30.24	2.28	
LAB*LAB	53.93	-30.24	2.28	
LAB*LAB	50.0	30.34	175.69	

relative CIELAB lab*

lab*lab	0.5	0.0	0.0	
lab*lab	0.5	0.0	0.0	
lab*lab	0.5	0.0	0.0	
lab*lab	0.5	0.0	0.0	
lab*lab	0.5	0.0	0.0	
lab*lab	0.5	0.0	0.0	
lab*lab	0.5	0.0	0.0	
lab*lab	0.5	0.0	0.0	
lab*lab	0.5	0.0	0.0	
lab*lab	0.5	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
olvi3*	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi5*	0.0	0.0	0.0	(0.0)
LAB*LAB	34.57	-29.21	6.25	
LAB*LAB	34.57	-30.23	2.29	
LAB*LAB	25.01	30.33	175.68	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
olvi3*	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi5*	0.0	0.0	0.0	(0.0)
LAB*LAB	26.34	-15.11	1.15	
LAB*LAB	26.34	-15.11	1.15	
LAB*LAB	12.5	15.16	175.67	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
olvi3*	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	(1.0)
olvi5*	0.0	0.0	0.0	(0.0)
LAB*LAB	18.12	0.8	0.49	
LAB*LAB	18.12	0.0	0.0	
LAB*LAB	15.0	0.01	0.0	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	

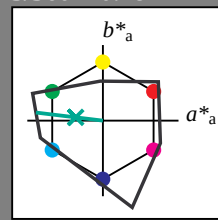
Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 173/360 = 0.481$ lab^*tch and lab^*nch

A: hue G

LCH*Ma: 78 89 173

olv*Ma: 0.0 1.0 0.43

triangle lightness t^* 

% Gamut

 $u^*_{rel} = 141$

relative Inform. Technology (IT)</

