

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = \text{lab}^*h = 38/360 = 0.105$

lab^*ch and lab^*nch

A: hue O
LCH*Ma: 48 83 38
olw*Ma: 1.0 0.0 0.0

triangle lightness

1.00

%Gamut

$u^*_{rel} = 93$

%Regularity

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

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

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

chromaticness c^*

$n^* = 1.0$

$n^* = 0.75$

$n^* = 0.50$

$n^* = 0.25$

$n^* = 0.00$

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ORS18; adapted (a) CIELAB data

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

%Regularity

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

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

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

chromaticness c^*

$n^* = 1.0$

$n^* = 0.75$

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Output: Colorimetric Television Luminous System TLS00

for hue $h^* = \text{lab}^*h = 40/360 = 0.111$

lab^*ch and lab^*nch

A: hue O
LCH*Ma: 51 100 40
olw*Ma: 1.0 0.0 0.0

triangle lightness

1.00

%Gamut

$u^*_{rel} = 158$

%Regularity

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

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

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

chromaticness c^*

$n^* = 1.0$

$n^* = 0.75$

$n^* = 0.50$

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TLS00; adapted (a) CIELAB data

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

%Regularity

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

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

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

chromaticness c^*

$n^* = 1.0$

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RE400-7, 5 step scales for constant CIELAB hue 38/360 = 0.105 (left)

BAM-test chart RE40; Colorimetric systems ORS18 & TLS00

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

5 step scales for constant CIELAB hue 40/360 = 0.111 (right)

input: `olv* setrgbcolor`

output: `olv* setrgbcolor / w* setgray`