

Input: Colorimetric Television Luminous System TLS00

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

lab^*tch and lab^*nch

D65: hue O
LCH*Ma: 51 100 40
olv*Ma: 1.0 0.0 0.0

triangle lightness

1.00

%Gamut

$u^*_{rel} = 158$

%Regularity

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

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

0.75

0.25

0.00

blackness n^*

chromaticness c^*

$n^* = 1.0$

$n^* = 0.50$

$n^* = 0.25$

$n^* = 0.00$

blackness n^*

chromaticness c^*

$n^* = 1.0$

$n^* = 0.50$

$n^* = 0.25$

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chromaticness c^*

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$n^* = 0.50$

$n^* = 0.25$

$n^* = 0.00$

blackness n^*

chromaticness c^*

TL500; adapted (a) CIELAB data

$L^* = L^*_a$ a^*_a b^*_a C^*_{ab} h^*_{ab}

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
J _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
C _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

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

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

0.75

0.25

0.00

blackness n^*

chromaticness c^*

$n^* = 1.0$

$n^* = 0.50$

$n^* = 0.25$

$n^* = 0.00$

blackness n^*

chromaticness c^*

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blackness n^*

chromaticness c^*

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blackness n^*

chromaticness c^*

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$n^* = 0.50$

$n^* = 0.25$

$n^* = 0.00$

Output: Colorimetric Offset Reflective System ORS18

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

lab^*tch and lab^*nch

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

triangle lightness

1.00

%Gamut

$u^*_{rel} = 93$

%Regularity

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

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

0.75

0.25

0.00

blackness n^*

chromaticness c^*

$n^* = 1.0$

$n^* = 0.50$

$n^* = 0.25$

$n^* = 0.00$

blackness n^*

chromaticness c^*

$n^* = 1.0$

$n^* = 0.50$

$n^* = 0.25$

$n^* = 0.00$

blackness n^*

chromaticness c^*

$n^* = 1.0$

$n^* = 0.50$

$n^* = 0.25$

$n^* = 0.00$

blackness n^*

chromaticness c^*

$n^* = 1.0$

$n^* = 0.50$

$n^* = 0.25$

$n^* = 0.00$

blackness n^*

chromaticness c^*

$n^* = 1.0$

$n^* = 0.50$

$n^* = 0.25$

$n^* = 0.00$

blackness n^*

chromaticness c^*

ORS18; adapted (a) CIELAB data

$L^* = L^*_a$ a^*_a b^*_a C^*_{ab} h^*_{ab}

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}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
J _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
C _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularity

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

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

0.75

0.25

0.00

blackness n^*

chromaticness c^*

$n^* = 1.0$

$n^* = 0.50$

$n^* = 0.25$

$n^* = 0.00$

blackness n^*

chromaticness c^*

$n^* = 1.0$

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blackness n^*

chromaticness c^*

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blackness n^*

chromaticness c^*

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$n^* = 0.25$

$n^* = 0.00$

OE450-7, 5 step scales for constant CIELAB hue 40/360 = 0.111 (left)

BAM-test chart OE45; Colorimetric systems TLS00 & ORS18

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

5 step scales for constant CIELAB hue 38/360 = 0.105 (right)

input: cmy0* setcmkcolor

output: no change compared to input