

Input: 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

oly*Ma: 1.0 0.0 0.0

triangle lightness

1.00

%Gamut

$u^*_{rel} = 93$

%Regularity

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

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

%Regularity

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

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

%Regularity

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

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

%Regularity

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

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

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

%Regularity

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

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

%Regularity

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

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

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

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

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

%Regularity

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

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

%Regularity

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

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

%Regularity

Output: Colorimetric Television Luminous System TLS18

for hue $h^* = \text{lab}^*h = 35/360 = 0.097$

lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 53 87 35

oly*Ma: 1.0 0.0 0.0

triangle lightness

1.00

%Gamut

$u^*_{rel} = 118$

%Regularity

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

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

%Regularity

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

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

%Regularity

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

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

%Regularity

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

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

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

%Regularity

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

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

%Regularity

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

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

%Regularity

TLS18; adapted (a) CIELAB data

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

O_{Ma} 52.76 71.63 49.88 87.29 35

Y_{Ma} 92.74 -20.02 84.97 87.3 103

L_{Ma} 84.0 -78.98 73.94 108.2 137

C_{Ma} 87.14 -44.41 -13.11 46.32 196

V_{Ma} 35.47 64.92 -95.06 115.12 304

M_{Ma} 59.01 89.33 -55.67 105.26 328

N_{Ma} 18.01 0.0 0.0 0.0 0

W_{Ma} 95.41 0.0 0.0 0.0 0

R_{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

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

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

%Regularity

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

%Regularity

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

%Regularity

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

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

%Regularity

OE410-7, 5 step scales for constant CIELAB hue 38/360 = 0.105 (left)

BAM-test chart OE41; Colorimetric systems ORS18 & TLS18

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

5 step scales for constant CIELAB hue 35/360 = 0.097 (right)

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

output: $\text{cmy}0^* / 000n^* \text{ setcmycolor}$