

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^*

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 1.0$

chromaticness c^*

0.25 0.50 0.75 1.00

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TLS00; adapted (a) CIELAB data					
$L^*_{a^*}$	a^*	b^*	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	
R _{CE} 39.92	58.74	27.99	65.07	25	
J _{CE} 81.26	-2.88	71.56	71.62	92	
G _{CE} 52.23	-42.41	13.6	44.55	162	
B _{CE} 30.57	1.41	-46.46	46.49	272	



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

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

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

0.75

0.25

0.00

blackness n^*

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 1.0$

chromaticness c^*

0.25 0.50 0.75 1.00

0.25 0.50 0.75 1.00

0.25 0.50 0.75 1.00

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0.25 0.50 0.75 1.00



ORS18; adapted (a) CIELAB data					
$L^*_{a^*}$	a^*	b^*	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	-38.76	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 _{CE} 39.92	58.66	26.98	64.57	25	
J _{CE} 81.26	-2.16	67.76	67.79	92	
G _{CE} 52.23	-42.25	11.76	43.87	164	
B _{CE} 30.57	1.15	-46.84	46.86	271	



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

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

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

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

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

BAM-test chart OE45; Colorimetric systems TLS00 & ORS18

input: $\text{cmy0}^* \text{ setcmykcolor}$

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

output: $\text{cmy0}^* / 000n^* \text{ setcmykcolor}$