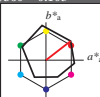


**Input: Colorimetric Offset Reflective System ORS18**

for hue  $h^* = lab^*h = 38/360 = 0.105$   
 $lab^*tch$  and  $lab^*nch$

A: hue O  
 LCH<sup>°</sup>Ma: 48 83 38  
 olv<sup>°</sup>Ma: 1.0 0.0 0.0

triangle lightness  $l^*$



% Gamut  
 $u^*_{rel} = 93$   
 % Regularity  
 $g^*_{Hrel} = 57$   
 $g^*_{Crel} = 59$

**relative Inform. Technology (IT)**  
 olvi3<sup>°</sup> 1.0 1.0 1.0 (1.0)  
 cmya3<sup>°</sup> 0.0 0.0 0.0 (0.0)  
 olvi4<sup>°</sup> 1.0 1.0 1.0 (1.0)  
 cmya4<sup>°</sup> 0.0 0.0 0.0 (0.0)  
**standard and adapted CIELAB**  
 LAB<sup>\*</sup>LAB 95.41 -0.98 4.75  
 LAB<sup>\*</sup>LABa 95.41 0.0 0.0  
 LAB<sup>\*</sup>TCha 99.99 0.01 -

**relative CIELAB lab<sup>\*</sup>**  
 lab<sup>\*</sup>lab 1.0 0.0 0.0  
 lab<sup>\*</sup>tch 1.0 0.0 -  
 lab<sup>\*</sup>nch 0.0 0.0 -  
**relative Natural Colour (NC)**  
 lab<sup>\*</sup>l\*trj 1.0 0.0 0.0  
 lab<sup>\*</sup>n\*ce 0.0 0.0 -

**relative Inform. Technology (IT)**  
 olvi3<sup>°</sup> 0.5 0.5 0.5 (1.0)  
 cmya3<sup>°</sup> 0.5 0.5 0.5 (0.0)  
 olvi4<sup>°</sup> 1.0 1.0 1.0 0.5  
 cmya4<sup>°</sup> 0.0 0.0 0.0 0.5  
**standard and adapted CIELAB**  
 LAB<sup>\*</sup>LAB 56.71 -0.24 2.14  
 LAB<sup>\*</sup>LABa 56.71 0.0 0.0  
 LAB<sup>\*</sup>TCha 50.0 0.01 -

**relative CIELAB lab<sup>\*</sup>**  
 lab<sup>\*</sup>lab 0.5 0.0 0.0  
 lab<sup>\*</sup>tch 0.5 0.0 -  
 lab<sup>\*</sup>nch 0.5 0.0 -  
**relative Natural Colour (NC)**  
 lab<sup>\*</sup>l\*trj 0.5 0.0 0.0  
 lab<sup>\*</sup>n\*ce 0.5 0.0 0.0  
 lab<sup>\*</sup>n\*ceE 0.5 0.0 0.0

**relative Inform. Technology (IT)**  
 olvi3<sup>°</sup> 0.0 0.0 0.0 (0.0)  
 cmya3<sup>°</sup> 1.0 1.0 1.0 (0.0)  
 olvi4<sup>°</sup> 1.0 1.0 1.0 (0.0)  
 cmya4<sup>°</sup> 0.0 0.0 0.0 (0.0)  
**standard and adapted CIELAB**  
 LAB<sup>\*</sup>LAB 18.02 0.5 -0.47  
 LAB<sup>\*</sup>LABa 18.02 0.0 0.0  
 LAB<sup>\*</sup>TCha 0.01 0.01 -

**relative CIELAB lab<sup>\*</sup>**  
 lab<sup>\*</sup>lab 0.0 0.0 0.0  
 lab<sup>\*</sup>tch 0.0 0.0 -  
 lab<sup>\*</sup>nch 1.0 0.0 -  
**relative Natural Colour (NC)**  
 lab<sup>\*</sup>l\*trj 0.0 0.0 0.0  
 lab<sup>\*</sup>n\*ce 0.0 0.0 -  
 lab<sup>\*</sup>n\*ceE 1.0 0.0 -

$n^* = 1.0$

**ORS18; adapted (a) CIELAB data**

$L^* - L^*_a$	$a^*_a$	$b^*_a$	$C^*_ab_a$	$h^*_{ab_a}$
OMa 47.94	65.39	50.52	82.63	38
YMa 90.37	-10.26	91.75	92.32	96
LMa 50.9	-62.83	34.96	71.91	151
CMa 58.62	-30.34	-45.01	54.53	236
VMa 25.72	31.1	-44.4	54.22	300
MMa 48.13	75.28	-8.36	75.74	354
NMa 18.01	0.0	0.0	0.0	0
WMa 95.41	0.0	0.0	0.0	0
RCIE 39.92	58.66	26.98	64.57	25
JCIE 81.26	-2.16	67.76	67.79	92
GCIE 52.23	-42.25	11.76	43.87	164
B_CIE 30.57	1.15	-46.84	46.86	271

**relative Inform. Technology (IT)**  
 olvi3<sup>°</sup> 1.0 0.5 0.5 (1.0)  
 cmya3<sup>°</sup> 0.0 0.5 0.5 (0.0)  
 olvi4<sup>°</sup> 1.0 0.5 0.5 (1.0)  
 cmya4<sup>°</sup> 0.0 0.5 0.5 (0.0)  
**standard and adapted CIELAB**  
 LAB<sup>\*</sup>LAB 71.67 32.15 28.41  
 LAB<sup>\*</sup>LABa 71.67 32.69 28.25  
 LAB<sup>\*</sup>TCha 75.0 41.31 37.69

**relative CIELAB lab<sup>\*</sup>**  
 lab<sup>\*</sup>lab 0.693 0.396 0.306  
 lab<sup>\*</sup>tch 0.75 0.5 0.105  
 lab<sup>\*</sup>nch 0.0 0.5 0.105  
**relative Natural Colour (NC)**  
 lab<sup>\*</sup>l\*trj 0.693 0.477 0.15  
 lab<sup>\*</sup>n\*ce 0.75 0.5 0.048  
 lab<sup>\*</sup>n\*ceE 0.0 0.5 0.191

**relative Inform. Technology (IT)**  
 olvi3<sup>°</sup> 0.5 0.0 0.0 (1.0)  
 cmya3<sup>°</sup> 0.5 1.0 0.0 (0.0)  
 olvi4<sup>°</sup> 1.0 0.5 0.5 0.5  
 cmya4<sup>°</sup> 0.0 0.5 0.5 0.5  
**standard and adapted CIELAB**  
 LAB<sup>\*</sup>LAB 32.98 32.9 25.8  
 LAB<sup>\*</sup>LABa 32.98 32.69 25.25  
 LAB<sup>\*</sup>TCha 25.01 41.31 37.69

**relative CIELAB lab<sup>\*</sup>**  
 lab<sup>\*</sup>lab 0.193 0.396 0.306  
 lab<sup>\*</sup>tch 0.25 0.5 0.105  
 lab<sup>\*</sup>nch 0.5 1.0 0.105  
**relative Natural Colour (NC)**  
 lab<sup>\*</sup>l\*trj 0.193 0.477 0.15  
 lab<sup>\*</sup>n\*ce 0.75 0.5 0.048  
 lab<sup>\*</sup>n\*ceE 0.5 0.5 0.191

$n^* = 0.00$

blackness  $n^*$

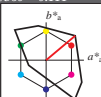
chromaticness  $c^*$

**Output: Colorimetric Television Luminous System TLS00**

for hue  $h^* = lab^*h = 40/360 = 0.111$   
 $lab^*tch$  and  $lab^*nch$

A: hue O  
 LCH<sup>°</sup>Ma: 51 100 40  
 olv<sup>°</sup>Ma: 1.0 0.0 0.0

triangle lightness  $l^*$



% Gamut  
 $u^*_{rel} = 158$   
 % Regularity  
 $g^*_{Hrel} = 20$   
 $g^*_{Crel} = 37$

**relative Inform. Technology (IT)**  
 olvi3<sup>°</sup> 1.0 1.0 1.0 (1.0)  
 cmya3<sup>°</sup> 0.0 0.0 0.0 (0.0)  
 olvi4<sup>°</sup> 1.0 1.0 1.0 1.0  
 cmya4<sup>°</sup> 0.0 0.0 0.0 0.0  
**standard and adapted CIELAB**  
 LAB<sup>\*</sup>LAB 95.41 0.0 0.0  
 LAB<sup>\*</sup>LABa 95.41 0.0 0.0  
 LAB<sup>\*</sup>TCha 99.99 0.01 -

**relative CIELAB lab<sup>\*</sup>**  
 lab<sup>\*</sup>lab 1.0 0.0 0.0  
 lab<sup>\*</sup>tch 1.0 0.0 -  
 lab<sup>\*</sup>nch 0.0 0.0 -  
**relative Natural Colour (NC)**  
 lab<sup>\*</sup>l\*trj 1.0 0.0 0.0  
 lab<sup>\*</sup>n\*ce 0.0 0.0 -

**relative Inform. Technology (IT)**  
 olvi3<sup>°</sup> 0.5 0.5 0.5 (1.0)  
 cmya3<sup>°</sup> 0.5 0.5 0.5 (0.0)  
 olvi4<sup>°</sup> 1.0 1.0 1.0 0.5  
 cmya4<sup>°</sup> 0.0 1.0 0.0 0.5  
**standard and adapted CIELAB**  
 LAB<sup>\*</sup>LAB 47.72 0.0 0.0  
 LAB<sup>\*</sup>LABa 47.72 0.0 0.0  
 LAB<sup>\*</sup>TCha 50.0 0.01 -

**relative CIELAB lab<sup>\*</sup>**  
 lab<sup>\*</sup>lab 0.5 0.0 0.0  
 lab<sup>\*</sup>tch 0.5 0.0 -  
 lab<sup>\*</sup>nch 0.5 0.0 -  
**relative Natural Colour (NC)**  
 lab<sup>\*</sup>l\*trj 0.5 0.0 0.0  
 lab<sup>\*</sup>n\*ce 0.5 0.0 0.0  
 lab<sup>\*</sup>n\*ceE 0.5 0.0 0.0

**relative Inform. Technology (IT)**  
 olvi3<sup>°</sup> 1.0 0.5 0.5 (1.0)  
 cmya3<sup>°</sup> 0.0 0.5 0.5 (0.0)  
 olvi4<sup>°</sup> 1.0 0.5 0.5 (1.0)  
 cmya4<sup>°</sup> 0.0 0.5 0.5 (0.0)  
**standard and adapted CIELAB**  
 LAB<sup>\*</sup>LAB 72.95 38.45 32.27  
 LAB<sup>\*</sup>LABa 72.95 38.45 32.27  
 LAB<sup>\*</sup>TCha 75.0 50.2 40.0

**relative CIELAB lab<sup>\*</sup>**  
 lab<sup>\*</sup>lab 0.765 0.383 0.321  
 lab<sup>\*</sup>tch 0.75 0.5 0.111  
 lab<sup>\*</sup>nch 0.0 0.5 0.111  
**relative Natural Colour (NC)**  
 lab<sup>\*</sup>l\*trj 0.765 0.471 0.167  
 lab<sup>\*</sup>n\*ce 0.75 0.5 0.054  
 lab<sup>\*</sup>n\*ceE 0.0 0.5 0.211

**relative Inform. Technology (IT)**  
 olvi3<sup>°</sup> 0.5 0.0 0.0 (1.0)  
 cmya3<sup>°</sup> 0.5 1.0 0.0 (0.0)  
 olvi4<sup>°</sup> 1.0 0.5 0.5 0.5  
 cmya4<sup>°</sup> 0.0 0.5 0.5 0.5  
**standard and adapted CIELAB**  
 LAB<sup>\*</sup>LAB 25.26 38.45 32.27  
 LAB<sup>\*</sup>LABa 25.01 50.2 40.0

**relative CIELAB lab<sup>\*</sup>**  
 lab<sup>\*</sup>lab 0.265 0.383 0.321  
 lab<sup>\*</sup>tch 0.25 0.5 0.111  
 lab<sup>\*</sup>nch 0.5 1.0 0.111  
**relative Natural Colour (NC)**  
 lab<sup>\*</sup>l\*trj 0.265 0.471 0.167  
 lab<sup>\*</sup>n\*ce 0.75 0.5 0.054  
 lab<sup>\*</sup>n\*ceE 0.5 0.5 0.211

$n^* = 0.00$

blackness  $n^*$

chromaticness  $c^*$

**relative Inform. Technology (IT)**  
 olvi3<sup>°</sup> 0.0 0.0 0.0 (0.0)  
 cmya3<sup>°</sup> 1.0 1.0 1.0 (0.0)  
 olvi4<sup>°</sup> 1.0 1.0 1.0 (0.0)  
 cmya4<sup>°</sup> 0.0 0.0 0.0 (0.0)  
**standard and adapted CIELAB**  
 LAB<sup>\*</sup>LAB 0.03 0.0 0.0  
 LAB<sup>\*</sup>LABa 0.03 0.0 0.0  
 LAB<sup>\*</sup>TCha 0.01 0.01 -

**relative CIELAB lab<sup>\*</sup>**  
 lab<sup>\*</sup>lab 0.0 0.0 0.0  
 lab<sup>\*</sup>tch 0.0 0.0 -  
 lab<sup>\*</sup>nch 1.0 0.0 -  
**relative Natural Colour (NC)**  
 lab<sup>\*</sup>l\*trj 0.0 0.0 0.0  
 lab<sup>\*</sup>n\*ce 0.0 0.0 -  
 lab<sup>\*</sup>n\*ceE 0.0 0.0 -

$n^* = 1.0$

See for similar files: <http://www.ps.bam.de/SE10/>  
 Technical information: <http://www.ps.bam.de/>

BAM registration: 20060101-SE10/10S/ST10E00F1.PS/TXT  
 application for evaluation and measurement of printer or monitor systems  
 BAM material: code=hm4ta  
 SE10 Form 10, Sheet 11, Page 1  
 Page count: 1

SE1000-7, 3 step scales for constant CIELAB hue 38/360 = 0.105 (left) 3 step scales for constant CIELAB hue 40/360 = 0.111 (right)

BAM-test chart SE10; Colorimetric systems ORS18 & TLS00

A: 2 coordinate data of 3 step colour scales for 10 hues

input: cmy0\* setcmykcolor

output: cmy0\*/000m\* setcmykcolor