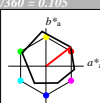


Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 38/360 = 0.105$
 lab^*ch and lab^*nc^h

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

triangle lightness l^*



ORS18; adapted (a) CIELAB data

| L^* | 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 | 54.53 | 236 |
| V _{Ma} | 25.72 | 31.1 | -44.4 | 54.22 | 306 |
| 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 |
| RC _E | 39.92 | 58.66 | 26.98 | 64.57 | 25 |
| J _{CI} | 81.26 | -2.16 | 67.76 | 67.79 | 92 |
| B _{CI} | 52.23 | -42.25 | 11.76 | 43.87 | 164 |
| G _{CI} | 30.57 | 1.15 | -46.84 | 46.86 | 271 |

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

relative Inform. Technology (IT)
 $olv^*s^* = 1.0$ 1.0 1.0 (1.0)
 $cmv^*s^* = 0.0$ 0.0 0.0 (0.0)
 $olv^*t^* = 1.0$ 1.0 1.0 (1.0)
 $cmv^*t^* = 0.0$ 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 95.41 -0.98 4.75
 LAB*LABa 95.41 0.0 0.0
 LAB*TC_Ha 99.99 0.01 -

relative CIELAB lab*
 $lab^*lab = 1.0$ 0.5 0.0 0.0
 $lab^*ch = 1.0$ 0.0 0.0 -

relative Natural Colour (NC)
 $lab^*l^*r = 1.0$ 0.0 0.0
 $lab^*l^*c = 1.0$ 0.0 0.0
 $lab^*nc^E = 0.0$ 0.0 -

standard and adapted CIELAB
 LAB*LAB 56.71 -0.24 2.14
 LAB*LABa 56.71 0.0 0.0
 LAB*TC_Ha 50.0 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.5$ 0.0 0.0
 $lab^*ch = 0.5$ 0.0 0.0
 $lab^*nc^h = 0.5$ 0.0 -

relative Natural Colour (NC)
 $lab^*l^*r = 0.5$ 0.0 0.0
 $lab^*l^*c = 0.5$ 0.0 0.0
 $lab^*nc^E = 0.5$ 0.0 -

relative Inform. Technology (IT)
 $olv^*s^* = 0.5$ 0.5 0.5 (1.0)
 $cmv^*s^* = 1.0$ 1.0 1.0 (1.0)
 $olv^*t^* = 1.0$ 1.0 1.0 (1.0)
 $cmv^*t^* = 0.0$ 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 18.02 0.5 -0.47
 LAB*LABa 18.02 0.0 0.0
 LAB*TC_Ha 0.01 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.0$ 0.0 0.0
 $lab^*ch = 0.0$ 0.0 0.0
 $lab^*nc^h = 1.0$ 0.0 -

relative Inform. Technology (IT)
 $olv^*s^* = 1.0$ 0.5 0.5 (1.0)
 $cmv^*s^* = 0.0$ 0.5 0.5 (0.0)
 $olv^*t^* = 1.0$ 0.5 0.5 (1.0)
 $cmv^*t^* = 0.0$ 0.5 0.5 (0.0)
 standard and adapted CIELAB
 LAB*LAB 71.67 32.15 28.41
 LAB*LABa 71.67 32.69 25.25
 LAB*TC_Ha 75.0 41.31 37.69

relative CIELAB lab*
 $lab^*lab = 0.693$ 0.396 0.306
 $lab^*ch = 0.75$ 0.5 0.105
 $lab^*nc^h = 0.0$ 0.5 0.105

relative Natural Colour (NC)
 $lab^*l^*r = 0.693$ 0.477 0.15
 $lab^*l^*c = 0.75$ 0.5 0.048
 $lab^*nc^E = 0.0$ 0.5 r19

relative Inform. Technology (IT)
 $olv^*s^* = 0.5$ 0.0 0.0 (1.0)
 $cmv^*s^* = 0.5$ 1.0 1.0 (0.0)
 $olv^*t^* = 1.0$ 0.5 0.5 (1.0)
 $cmv^*t^* = 0.0$ 0.5 0.5 (0.0)
 standard and adapted CIELAB
 LAB*LAB 32.98 32.9 25.8
 LAB*LABa 32.98 32.69 25.25
 LAB*TC_Ha 25.01 41.31 37.69

relative CIELAB lab*
 $lab^*lab = 0.193$ 0.396 0.306
 $lab^*ch = 0.25$ 0.5 0.105
 $lab^*nc^h = 1.0$ 0.5 0.105

relative Natural Colour (NC)
 $lab^*l^*r = 0.193$ 0.477 0.15
 $lab^*l^*c = 0.75$ 0.5 0.048
 $lab^*nc^E = 0.5$ 0.5 r19

relative Inform. Technology (IT)
 $olv^*s^* = 1.0$ 0.0 0.0 (1.0)
 $cmv^*s^* = 1.0$ 0.0 0.0 (1.0)
 $olv^*t^* = 1.0$ 0.0 0.0 (1.0)
 $cmv^*t^* = 0.0$ 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 47.94 65.3 52.06
 LAB*LABa 47.94 65.37 50.51
 LAB*TC_Ha 50.0 82.61 37.69

relative CIELAB lab*
 $lab^*lab = 0.387$ 0.791 0.611
 $lab^*ch = 0.5$ 1.0 0.105
 $lab^*nc^h = 0.0$ 1.0 0.105

relative Natural Colour (NC)
 $lab^*l^*r = 0.387$ 0.554 0.299
 $lab^*l^*c = 0.5$ 1.0 0.048
 $lab^*nc^E = 0.0$ 1.0 r19

relative Inform. Technology (IT)
 $olv^*s^* = 0.0$ 0.0 0.0 (1.0)
 $cmv^*s^* = 1.0$ 1.0 1.0 (0.0)
 $olv^*t^* = 1.0$ 1.0 1.0 (1.0)
 $cmv^*t^* = 0.0$ 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 0.03 0.0 0.0
 LAB*LABa 0.03 0.0 0.0
 LAB*TC_Ha 0.01 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.0$ 0.0 0.0
 $lab^*ch = 0.0$ 0.0 0.0
 $lab^*nc^h = 1.0$ 0.0 -

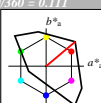
relative Natural Colour (NC)
 $lab^*l^*r = 0.0$ 0.0 0.0
 $lab^*l^*c = 0.0$ 0.0 0.0
 $lab^*nc^E = 0.0$ 0.0 -

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 40/360 = 0.111$
 lab^*ch and lab^*nc^h

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

triangle lightness l^*



TLS00; adapted (a) CIELAB data

| L^* | 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 |
| RC _E | 39.92 | 58.74 | 27.99 | 65.07 | 25 |
| J _{CI} | 81.26 | -2.88 | 71.56 | 71.62 | 92 |
| B _{CI} | 52.23 | -42.41 | 13.6 | 44.55 | 162 |
| G _{CI} | 30.57 | 1.41 | -46.46 | 46.49 | 272 |

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

relative Inform. Technology (IT)
 $olv^*s^* = 1.0$ 1.0 1.0 (1.0)
 $cmv^*s^* = 0.0$ 0.0 0.0 (0.0)
 $olv^*t^* = 1.0$ 1.0 1.0 (1.0)
 $cmv^*t^* = 0.0$ 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 95.41 0.0 0.0
 LAB*LABa 95.41 0.0 0.0
 LAB*TC_Ha 99.99 0.01 -

relative CIELAB lab*
 $lab^*lab = 1.0$ 0.0 0.0
 $lab^*ch = 1.0$ 0.0 0.0
 $lab^*nc^h = 1.0$ 0.0 -

relative Natural Colour (NC)
 $lab^*l^*r = 1.0$ 0.0 0.0
 $lab^*l^*c = 1.0$ 0.0 0.0
 $lab^*nc^E = 0.0$ 0.0 -

relative Inform. Technology (IT)
 $olv^*s^* = 0.5$ 0.5 0.5 (1.0)
 $cmv^*s^* = 0.5$ 0.5 0.5 (0.0)
 $olv^*t^* = 1.0$ 1.0 1.0 (1.0)
 $cmv^*t^* = 0.0$ 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 47.72 0.0 0.0
 LAB*LABa 47.72 0.0 0.0
 LAB*TC_Ha 50.0 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.5$ 0.0 0.0
 $lab^*ch = 0.5$ 0.0 0.0
 $lab^*nc^h = 0.5$ 0.0 -

relative Natural Colour (NC)
 $lab^*l^*r = 0.5$ 0.0 0.0
 $lab^*l^*c = 0.5$ 0.0 0.0
 $lab^*nc^E = 0.5$ 0.0 -

relative Inform. Technology (IT)
 $olv^*s^* = 0.0$ 0.0 0.0 (1.0)
 $cmv^*s^* = 1.0$ 1.0 1.0 (0.0)
 $olv^*t^* = 1.0$ 1.0 1.0 (1.0)
 $cmv^*t^* = 0.0$ 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 0.03 0.0 0.0
 LAB*LABa 0.03 0.0 0.0
 LAB*TC_Ha 0.01 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.0$ 0.0 0.0
 $lab^*ch = 0.0$ 0.0 0.0
 $lab^*nc^h = 1.0$ 0.0 -

relative Inform. Technology (IT)
 $olv^*s^* = 1.0$ 0.5 0.5 (1.0)
 $cmv^*s^* = 0.0$ 0.5 0.5 (0.0)
 $olv^*t^* = 1.0$ 0.5 0.5 (1.0)
 $cmv^*t^* = 0.0$ 0.5 0.5 (0.0)
 standard and adapted CIELAB
 LAB*LAB 72.95 38.45 32.27
 LAB*LABa 72.95 38.45 32.27
 LAB*TC_Ha 75.0 50.2 40.0

relative CIELAB lab*
 $lab^*lab = 0.765$ 0.383 0.321
 $lab^*ch = 0.75$ 0.5 0.111
 $lab^*nc^h = 0.0$ 0.5 0.111

relative Natural Colour (NC)
 $lab^*l^*r = 0.765$ 0.471 0.167
 $lab^*l^*c = 0.75$ 0.5 0.054
 $lab^*nc^E = 0.0$ 0.5 r21

relative Inform. Technology (IT)
 $olv^*s^* = 0.5$ 0.0 0.0 (1.0)
 $cmv^*s^* = 0.5$ 1.0 1.0 (0.0)
 $olv^*t^* = 1.0$ 0.5 0.5 (1.0)
 $cmv^*t^* = 0.0$ 0.5 0.5 (0.0)
 standard and adapted CIELAB
 LAB*LAB 25.26 38.45 32.27
 LAB*LABa 25.01 50.2 40.0

relative CIELAB lab*
 $lab^*lab = 0.265$ 0.383 0.321
 $lab^*ch = 0.25$ 0.5 0.111
 $lab^*nc^h = 0.5$ 1.0 0.111

relative Natural Colour (NC)
 $lab^*l^*r = 0.265$ 0.471 0.167
 $lab^*l^*c = 0.25$ 0.5 0.054
 $lab^*nc^E = 0.5$ 0.5 r21

relative Inform. Technology (IT)
 $olv^*s^* = 1.0$ 0.0 0.0 (1.0)
 $cmv^*s^* = 0.0$ 1.0 1.0 (0.0)
 $olv^*t^* = 1.0$ 0.0 0.0 (1.0)
 $cmv^*t^* = 0.0$ 1.0 1.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 50.5 76.9 64.54
 LAB*LABa 50.5 76.9 64.54
 LAB*TC_Ha 50.0 100.4 40.0

relative CIELAB lab*
 $lab^*lab = 0.529$ 0.766 0.643
 $lab^*ch = 0.5$ 1.0 0.111
 $lab^*nc^h = 0.0$ 1.0 0.111

relative Natural Colour (NC)
 $lab^*l^*r = 0.529$ 0.942 0.335
 $lab^*l^*c = 0.5$ 1.0 0.054
 $lab^*nc^E = 0.0$ 1.0 r21

relative Inform. Technology (IT)
 $olv^*s^* = 0.5$ 0.0 0.0 (1.0)
 $cmv^*s^* = 0.5$ 1.0 1.0 (0.0)
 $olv^*t^* = 1.0$ 0.5 0.5 (1.0)
 $cmv^*t^* = 0.0$ 0.5 0.5 (0.0)
 standard and adapted CIELAB
 LAB*LAB 25.26 38.45 32.27
 LAB*LABa 25.01 50.2 40.0

relative CIELAB lab*
 $lab^*lab = 0.265$ 0.383 0.321
 $lab^*ch = 0.25$ 0.5 0.111
 $lab^*nc^h = 0.5$ 1.0 0.111

relative Natural Colour (NC)
 $lab^*l^*r = 0.265$ 0.471 0.167
 $lab^*l^*c = 0.25$ 0.5 0.054
 $lab^*nc^E = 0.5$ 0.5 r21

See for similar files: <http://www.ps.bam.de/RE10/>
 Technical information: <http://www.ps.bam.de/>

BAM registration: 20060101-RE10/10Q/Q10E00F1.PS/TXT
 application for evaluation and measurement of printer or monitor systems
 BAM material: code=thd4ta
 RE10 Form 10, Sheet 11, Page 1
 Page count: 1

RE100-7, 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 RE10; Colorimetric systems ORS18 & TLS00 input: $olv^* setrgbcolor$
 A: 2 coordinate data of 3 step color scales for 10 hues output: $olv^* setrgbcolor / w^* setgray$