

(olv3* = 0.0, l3*, v3*)

a01

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 0.75 (0.0)
olv4* 1.0 1.0 1.0 0.0
cmyn4* 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*TCtHa 0.01 -0.001 -
relative CIELAB lab*
lab*lab 0.08 0.148 -0.2
lab*tch 0.0 0.0 -
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*lrce 0.0 0.0 0.0
lab*nce 1.0 0.0 -

B

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.25 (1.0)
cmyn3* 1.0 1.0 0.75 (0.0)
olv4* 0.75 0.75 1.0 0.25
cmyn4* 0.25 0.25 0.0 0.75
standard and adapted CIELAB
LAB*LAB 7.61 19.01 -25.87
LAB*LABa 7.61 19.01 -25.87
LAB*TCtHa 12.5 32.11 306.29
relative CIELAB lab*
lab*lab 0.08 0.148 -0.2
lab*tch 0.125 0.25 0.851
lab*nch 0.75 0.25 0.851
relative Natural Colour (NC)
lab*lrj 0.08 0.063 -0.241
lab*lrce 0.125 0.25 0.791
lab*nce 0.75 0.25 b16r

C

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.5 (1.0)
cmyn3* 1.0 1.0 0.5 (0.0)
olv4* 0.5 0.5 1.0 0.5
cmyn4* 0.5 0.5 0.0 0.5
standard and adapted CIELAB
LAB*LAB 15.21 38.02 -51.77
LAB*LABa 15.21 38.02 -51.77
LAB*TCtHa 25.01 64.24 306.29
relative CIELAB lab*
lab*lab 0.159 0.296 -0.402
lab*tch 0.25 0.5 0.851
lab*nch 0.5 0.5 0.851
relative Natural Colour (NC)
lab*lrj 0.159 0.127 -0.483
lab*lrce 0.25 0.5 0.791
lab*nce 0.5 0.5 b16r

D

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.75 (1.0)
cmyn3* 1.0 1.0 0.25 (0.0)
olv4* 0.25 0.25 1.0 0.75
cmyn4* 0.25 0.25 0.0 0.25
standard and adapted CIELAB
LAB*LAB 22.8 57.04 -77.66
LAB*LABa 22.8 57.04 -77.66
LAB*TCtHa 37.51 66.37 306.29
relative CIELAB lab*
lab*lab 0.239 0.444 -0.603
lab*tch 0.375 0.75 0.851
lab*nch 0.25 0.75 0.851
relative Natural Colour (NC)
lab*lrj 0.239 0.19 -0.724
lab*lrce 0.375 0.75 0.791
lab*nce 0.25 0.75 b16r

E

relative Inform. Technology (IT)
olv3* 0.0 0.0 1.0 (1.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olv4* 0.0 0.0 1.0 1.0
cmyn4* 1.0 1.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 30.39 76.04 -103.55
LAB*LABa 30.39 76.04 -103.55
LAB*TCtHa 50.0 128.48 306.29
relative CIELAB lab*
lab*lab 0.318 0.592 -0.805
lab*tch 0.5 1.0 0.851
lab*nch 0.0 1.0 0.851
relative Natural Colour (NC)
lab*lrj 0.318 0.254 -0.966
lab*lrce 0.5 1.0 0.791
lab*nce 0.0 1.0 b16r

(olv3* = 0.0, 0, 1)

System: TLS00

a02

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.5 (1.0)
cmyn3* 1.0 0.75 1.0 (0.0)
olv4* 0.75 1.0 1.0 0.25
cmyn4* 0.25 0.0 0.25 0.75
standard and adapted CIELAB
LAB*LAB 20.92 -20.67 19.97
LAB*LABa 20.92 -20.67 19.97
LAB*TCtHa 12.5 28.75 136.01
relative CIELAB lab*
lab*lab 0.219 -0.179 0.174
lab*tch 0.125 0.25 0.378
lab*nch 0.75 0.25 0.378
relative Natural Colour (NC)
lab*lrj 0.219 -0.188 0.164
lab*lrce 0.125 0.25 0.386
lab*nce 0.75 0.25 j54g

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.25 (1.0)
cmyn3* 1.0 0.75 0.5 (0.0)
olv4* 0.75 1.0 1.0 0.25
cmyn4* 0.25 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 21.73 -11.53 -3.38
LAB*LABa 21.73 -11.53 -3.38
LAB*TCtHa 12.5 12.03 196.37
relative CIELAB lab*
lab*lab 0.228 -0.239 -0.069
lab*tch 0.125 0.25 0.545
lab*nch 0.75 0.25 0.545
relative Natural Colour (NC)
lab*lrj 0.228 -0.235 -0.082
lab*lrce 0.125 0.25 0.554
lab*nce 0.75 0.25 g21b

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.5 (1.0)
cmyn3* 1.0 0.75 0.5 (0.0)
olv4* 0.5 0.75 1.0 0.5
cmyn4* 0.5 0.25 0.0 0.5
standard and adapted CIELAB
LAB*LAB 29.32 7.48 -29.27
LAB*LABa 29.32 7.48 -29.27
LAB*TCtHa 25.01 10.22 284.32
relative CIELAB lab*
lab*lab 0.307 0.124 -0.483
lab*tch 0.25 0.5 0.79
lab*nch 0.5 0.5 0.79
relative Natural Colour (NC)
lab*lrj 0.307 -0.035 -0.498
lab*lrce 0.25 0.5 0.739
lab*nce 0.5 0.5 g95b

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.75 (1.0)
cmyn3* 1.0 0.75 0.25 (0.0)
olv4* 0.25 0.5 1.0 0.75
cmyn4* 0.25 0.5 0.0 0.25
standard and adapted CIELAB
LAB*LAB 36.92 26.49 -55.17
LAB*LABa 36.92 26.49 -55.17
LAB*TCtHa 37.51 61.21 295.65
relative CIELAB lab*
lab*lab 0.387 0.325 -0.675
lab*tch 0.375 0.75 0.821
lab*nch 0.25 0.75 0.821
relative Natural Colour (NC)
lab*lrj 0.387 0.068 -0.746
lab*lrce 0.375 0.75 0.764
lab*nce 0.25 0.75 g05r

relative Inform. Technology (IT)
olv3* 0.0 0.25 1.0 (1.0)
cmyn3* 1.0 0.75 0.0 (0.0)
olv4* 0.0 0.25 1.0 1.0
cmyn4* 1.0 0.75 0.0 0.0
standard and adapted CIELAB
LAB*LAB 44.51 45.5 -81.05
LAB*LABa 44.51 45.5 -81.05
LAB*TCtHa 50.0 92.96 299.3
relative CIELAB lab*
lab*lab 0.466 0.489 -0.871
lab*tch 0.5 1.0 0.831
lab*nch 0.0 1.0 0.831
relative Natural Colour (NC)
lab*lrj 0.466 0.147 -0.988
lab*lrce 0.5 1.0 0.774
lab*nce 0.0 1.0 b09r

a03

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.0 (1.0)
cmyn3* 1.0 0.5 1.0 (0.0)
olv4* 0.5 1.0 0.5 0.5
cmyn4* 0.5 0.0 0.5 0.5
standard and adapted CIELAB
LAB*LAB 41.82 -41.36 39.94
LAB*LABa 41.82 -41.36 39.94
LAB*TCtHa 25.01 57.51 136.01
relative CIELAB lab*
lab*lab 0.438 -0.359 0.347
lab*tch 0.25 0.5 0.378
lab*nch 0.5 0.5 0.378
relative Natural Colour (NC)
lab*lrj 0.438 -0.376 0.328
lab*lrce 0.25 0.5 0.386
lab*nce 0.5 0.5 j54g

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.25 (1.0)
cmyn3* 1.0 0.5 0.75 (0.0)
olv4* 0.5 1.0 0.75 0.5
cmyn4* 0.5 0.0 0.25 0.5
standard and adapted CIELAB
LAB*LAB 42.63 -32.22 16.59
LAB*LABa 42.63 -32.22 16.59
LAB*TCtHa 25.01 36.25 152.77
relative CIELAB lab*
lab*lab 0.447 -0.443 0.229
lab*tch 0.25 0.5 0.424
lab*nch 0.5 0.5 0.424
relative Natural Colour (NC)
lab*lrj 0.447 -0.465 0.181
lab*lrce 0.25 0.5 0.441
lab*nce 0.5 0.5 j76g

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.5 (1.0)
cmyn3* 1.0 0.5 0.5 (0.0)
olv4* 0.5 1.0 1.0 0.5
cmyn4* 0.5 0.0 0.5 0.5
standard and adapted CIELAB
LAB*LAB 43.45 -23.07 -6.77
LAB*LABa 43.45 -23.07 -6.77
LAB*TCtHa 25.01 24.06 196.37
relative CIELAB lab*
lab*lab 0.455 -0.479 -0.14
lab*tch 0.25 0.5 0.545
lab*nch 0.5 0.5 0.545
relative Natural Colour (NC)
lab*lrj 0.455 -0.471 -0.164
lab*lrce 0.25 0.5 0.554
lab*nce 0.5 0.5 g21b

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.75 (1.0)
cmyn3* 1.0 0.5 0.25 (0.0)
olv4* 0.25 0.75 1.0 0.75
cmyn4* 0.25 0.25 0.0 0.25
standard and adapted CIELAB
LAB*LAB 51.04 -4.06 -32.66
LAB*LABa 51.04 -4.06 -32.66
LAB*TCtHa 37.51 32.93 262.91
relative CIELAB lab*
lab*lab 0.535 -0.092 -0.743
lab*tch 0.375 0.75 0.73
lab*nch 0.25 0.75 0.73
relative Natural Colour (NC)
lab*lrj 0.535 -0.26 -0.702
lab*lrce 0.375 0.75 0.694
lab*nce 0.25 0.75 g77b

relative Inform. Technology (IT)
olv3* 0.0 0.5 1.0 (1.0)
cmyn3* 1.0 0.5 0.0 (0.0)
olv4* 0.0 0.5 1.0 1.0
cmyn4* 1.0 0.5 0.0 0.0
standard and adapted CIELAB
LAB*LAB 58.63 14.94 -58.55
LAB*LABa 58.63 14.94 -58.55
LAB*TCtHa 50.0 60.43 284.31
relative CIELAB lab*
lab*lab 0.614 0.247 -0.968
lab*tch 0.5 1.0 0.79
lab*nch 0.0 1.0 0.79
relative Natural Colour (NC)
lab*lrj 0.614 -0.071 -0.996
lab*lrce 0.5 1.0 0.738
lab*nce 0.0 1.0 g95b

a04

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.0 (1.0)
cmyn3* 1.0 0.25 1.0 (0.0)
olv4* 0.25 1.0 0.25 0.75
cmyn4* 0.75 0.0 0.75 0.25
standard and adapted CIELAB
LAB*LAB 62.73 -62.05 59.92
LAB*LABa 62.73 -62.05 59.92
LAB*TCtHa 37.51 86.27 136.01
relative CIELAB lab*
lab*lab 0.657 -0.538 0.521
lab*tch 0.375 0.75 0.378
lab*nch 0.25 0.75 0.378
relative Natural Colour (NC)
lab*lrj 0.657 -0.565 0.492
lab*lrce 0.375 0.75 0.386
lab*nce 0.25 0.75 j54g

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.25 (1.0)
cmyn3* 1.0 0.25 0.75 (0.0)
olv4* 0.25 1.0 0.75 0.75
cmyn4* 0.75 0.0 0.5 0.25
standard and adapted CIELAB
LAB*LAB 63.54 -52.91 36.56
LAB*LABa 63.54 -52.91 36.56
LAB*TCtHa 37.51 64.32 145.36
relative CIELAB lab*
lab*lab 0.666 -0.616 0.426
lab*tch 0.375 0.75 0.404
lab*nch 0.25 0.75 0.404
relative Natural Colour (NC)
lab*lrj 0.666 -0.648 0.375
lab*lrce 0.375 0.75 0.417
lab*nce 0.25 0.75 j66g

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.5 (1.0)
cmyn3* 1.0 0.25 0.5 (0.0)
olv4* 0.25 1.0 1.0 0.75
cmyn4* 0.75 0.0 0.25 0.25
standard and adapted CIELAB
LAB*LAB 64.35 -43.76 13.2
LAB*LABa 64.35 -43.76 13.2
LAB*TCtHa 37.51 45.72 162.22
relative CIELAB lab*
lab*lab 0.674 0.717 0.216
lab*tch 0.375 0.75 0.453
lab*nch 0.25 0.75 0.453
relative Natural Colour (NC)
lab*lrj 0.674 0.74 0.117
lab*lrce 0.375 0.75 0.475
lab*nce 0.25 0.75 j90g

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.75 (1.0)
cmyn3* 1.0 0.25 0.25 (0.0)
olv4* 0.25 1.0 1.0 0.75
cmyn4* 0.75 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 65.18 -34.61 -10.16
LAB*LABa 65.18 -34.61 -10.16
LAB*TCtHa 37.51 36.09 196.37
relative CIELAB lab*
lab*lab 0.683 0.719 -0.21
lab*tch 0.375 0.75 0.545
lab*nch 0.25 0.75 0.545
relative Natural Colour (NC)
lab*lrj 0.683 -0.707 -0.247
lab*lrce 0.375 0.75 0.554
lab*nce 0.25 0.75 g21b

relative Inform. Technology (IT)
olv3* 0.0 0.75 1.0 (1.0)
cmyn3* 1.0 0.25 0.0 (0.0)
olv4* 0.0 0.75 1.0 1.0
cmyn4* 1.0 0.25 0.0 0.0
standard and adapted CIELAB
LAB*LAB 72.76 -15.61 -36.04
LAB*LABa 72.76 -15.61 -36.04
LAB*TCtHa 50.0 39.29 246.58
relative CIELAB lab*
lab*lab 0.763 -0.396 -0.916
lab*tch 0.5 1.0 0.685
lab*nch 0.0 1.0 0.685
relative Natural Colour (NC)
lab*lrj 0.763 -0.539 -0.84
lab*lrce 0.5 1.0 0.659
lab*nce 0.0 1.0 g63b

a05

relative Inform. Technology (IT)
olv3* 0.0 1.0 0.0 (1.0)
cmyn3* 1.0 0.0 1.0 (0.0)
olv4* 0.0 1.0 0.0 1.0
cmyn4* 1.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 83.62 -82.73 79.88
LAB*LABa 83.62 -82.73 79.88
LAB*TCtHa 50.0 115.01 136.01
relative CIELAB lab*
lab*lab 0.876 -0.718 0.694
lab*tch 0.5 1.0 0.378
lab*nch 0.0 1.0 0.378
relative Natural Colour (NC)
lab*lrj 0.876 -0.783 0.656
lab*lrce 0.5 1.0 0.386
lab*nce 0.0 1.0 j54g

relative Inform. Technology (IT)
olv3* 0.0 1.0 0.25 (1.0)
cmyn3* 1.0 0.0 0.75 (0.0)
olv4* 0.0 1.0 0.25 1.0
cmyn4* 1.0 0.0 0.75 0.0
standard and adapted CIELAB
LAB*LAB 84.45 -73.39 56.53
LAB*LABa 84.45 -73.39 56.53
LAB*TCtHa 50.0 92.8 142.47
relative CIELAB lab*
lab*lab 0.885 -0.792 0.609
lab*tch 0.5 1.0 0.396
lab*nch 0.0 1.0 0.396
relative Natural Colour (NC)
lab*lrj 0.885 0.893 0.633
lab*lrce 0.5 1.0 0.497
lab*nce 0.0 1.0 j62g

relative Inform. Technology (IT)
olv3* 0.0 1.0 0.5 (1.0)
cmyn3* 1.0 0.0 0.5 (0.0)
olv4* 0.0 1.0 0.5 1.0
cmyn4* 1.0 0.0 0.5 0.0
standard and adapted CIELAB
LAB*LAB 85.25 -64.44 33.16
LAB*LABa 85.25 -64.44 33.16
LAB*TCtHa 50.0 72.48 152.77
relative CIELAB lab*
lab*lab 0.893 0.888 0.457
lab*tch 0.5 1.0 0.424
lab*nch 0.0 1.0 0.424
relative Natural Colour (NC)
lab*lrj 0.893 0.902 0.618
lab*lrce 0.5 1.0 0.441
lab*nce 0.0 1.0 j76g

relative Inform. Technology (IT)
olv3* 0.0 1.0 0.75 (1.0)
cmyn3* 1.0 0.0 0.25 (0.0)
olv4* 0.0 1.0 0.75 1.0
cmyn4* 1.0 0.0 0.25 0.0
standard and adapted CIELAB
LAB*LAB 86.06 -55.29 9.8
LAB*LABa 86.06 -55.29 9.8
LAB*TCtHa 50.0 56.17 169.95
relative CIELAB lab*
lab*lab 0.902 0.983 0.174
lab*tch 0.5 1.0 0.472
lab*nch 0.0 1.0 0.472
relative Natural Colour (NC)
lab*lrj 0.902 0.998 0.181
lab*lrce 0.5 1.0 0.497
lab*nce 0.0 1.0 j98g

relative Inform. Technology (IT)
olv3* 0.0 1.0 1.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 1.0 1.0
cmyn4* 1.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 86.87 -46.15 -13.55
LAB*LABa 86.87 -46.15 -13.55
LAB*TCtHa 50.0 48.11 196.37
relative CIELAB lab*
lab*lab 0.911 0.958 -0.281
lab*tch 0.5 1.0 0.545
lab*nch 0.0 1.0 0.545
relative Natural Colour (NC)
lab*lrj 0.911 -0.942 -0.33
lab*lrce 0.5 1.0 0.554
lab*nce 0.0 1.0 g21b

(olv3* = 0.0, 1, 0)

LE400-7, Test chart file with 5x5x5 (=125) colours; Device dependent colour coordinates olv3* of ISO/IEC 15775:1999 as input; r3* = o3* = 0.0 = const.

BAM-test chart no. LE40; Television Luminous System (TLS)
125 colours in CIELAB and three relative device systems (DS)

input: olv* setrgbcolor
output: Startup (S) data dependend

(olv3* = 0.25, l3*, v3*)

b01

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.25 1.0
cmyn3* 0.75 1.0 0.75 0.0
olv4* 1.0 0.75 0.75 0.25
cmyn4* 0.0 0.25 0.5 0.75
standard and adapted CIELAB
LAB*LAB 12.64 19.22 16.13
LAB*LABa 12.64 19.22 16.13
LAB*TCHa 12.5 25.09 40.0
relative CIELAB lab*
lab*lab 0.132 0.191 0.161
lab*tch 0.125 0.25 0.111
lab*nch 0.75 0.25 0.111
relative Natural Colour (NC)
lab*lrj 0.132 0.244 0.056
lab*tce 0.125 0.25 0.086
lab*nce 0.75 0.25 r14j

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.25 1.0
cmyn3* 0.75 1.0 0.75 0.0
olv4* 1.0 0.75 1.0 0.25
cmyn4* 0.0 0.25 0.5 0.75
standard and adapted CIELAB
LAB*LAB 14.34 23.58 -14.59
LAB*LABa 14.34 23.58 -14.59
LAB*TCHa 12.5 27.73 328.24
relative CIELAB lab*
lab*lab 0.15 0.212 -0.131
lab*tch 0.125 0.25 0.912
lab*nch 0.75 0.25 0.912
relative Natural Colour (NC)
lab*lrj 0.15 0.141 -0.206
lab*tce 0.125 0.25 0.845
lab*nce 0.75 0.25 b38r

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.25 1.0
cmyn3* 0.75 1.0 0.75 0.0
olv4* 0.75 0.5 1.0 0.5
cmyn4* 0.0 0.25 0.5 0.75
standard and adapted CIELAB
LAB*LAB 21.93 42.59 -40.48
LAB*LABa 21.93 42.59 -40.48
LAB*TCHa 25.01 30.77 316.45
relative CIELAB lab*
lab*lab 0.23 0.362 -0.343
lab*tch 0.25 0.5 0.879
lab*nch 0.5 0.5 0.879
relative Natural Colour (NC)
lab*lrj 0.23 0.201 -0.457
lab*tce 0.25 0.5 0.816
lab*nce 0.5 0.5 b22r

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.25 1.0
cmyn3* 0.75 1.0 0.75 0.0
olv4* 0.5 0.25 1.0 0.75
cmyn4* 0.0 0.25 0.5 0.75
standard and adapted CIELAB
LAB*LAB 29.53 61.61 -66.38
LAB*LABa 29.53 61.61 -66.38
LAB*TCHa 32.51 30.57 312.86
relative CIELAB lab*
lab*lab 0.309 0.51 -0.549
lab*tch 0.375 0.75 0.869
lab*nch 0.25 0.75 0.869
relative Natural Colour (NC)
lab*lrj 0.309 0.263 -0.701
lab*tce 0.375 0.75 0.807
lab*nce 0.25 0.75 b22r

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.25 1.0
cmyn3* 0.75 1.0 0.75 0.0
olv4* 0.25 0.0 1.0 1.0
cmyn4* 0.0 0.75 1.0 0.0
standard and adapted CIELAB
LAB*LAB 37.12 80.62 -92.26
LAB*LABa 37.12 80.62 -92.26
LAB*TCHa 122.53 311.14
relative CIELAB lab*
lab*lab 0.389 0.658 -0.752
lab*tch 0.5 1.0 0.864
lab*nch 0.0 1.0 0.864
relative Natural Colour (NC)
lab*lrj 0.389 0.326 -0.944
lab*tce 0.5 1.0 0.803
lab*nce 0.0 1.0 b21r

(olv3* = 0.25, 0, 1)

System: TLS00

b02

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.0 1.0
cmyn3* 0.75 0.75 1.0 0.0
olv4* 1.0 1.0 0.75 0.25
cmyn4* 0.0 0.25 0.75 0.75
standard and adapted CIELAB
LAB*LAB 23.17 -5.16 22.68
LAB*LABa 23.17 -5.16 22.68
LAB*TCHa 12.5 23.26 102.85
relative CIELAB lab*
lab*lab 0.243 -0.055 0.244
lab*tch 0.125 0.25 0.286
lab*nch 0.75 0.25 0.286
relative Natural Colour (NC)
lab*lrj 0.243 -0.042 0.246
lab*tce 0.125 0.25 0.278
lab*nce 0.75 0.25 r14j

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 1.0
cmyn3* 0.75 0.75 0.75 0.0
olv4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 23.87 0.0 0.0
LAB*LABa 23.87 0.0 0.0
LAB*TCHa 25.0 0.01 -
relative CIELAB lab*
lab*lab 0.243 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.75 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.25 0.0 0.0
lab*tce 0.25 0.0 -
lab*nce 0.75 0.0 -

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.5 1.0
cmyn3* 0.75 0.75 0.5 0.0
olv4* 0.75 0.75 1.0 0.5
cmyn4* 0.25 0.25 0.0 0.5
standard and adapted CIELAB
LAB*LAB 31.46 19.01 -25.89
LAB*LABa 31.46 19.01 -25.89
LAB*TCHa 37.5 22.13 306.29
relative CIELAB lab*
lab*lab 0.33 0.148 -0.201
lab*tch 0.375 0.25 0.851
lab*nch 0.5 0.25 0.851
relative Natural Colour (NC)
lab*lrj 0.33 0.063 -0.241
lab*tce 0.375 0.25 0.791
lab*nce 0.5 0.25 b16r

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.75 1.0
cmyn3* 0.75 0.75 0.75 0.0
olv4* 0.5 0.5 1.0 0.75
cmyn4* 0.5 0.5 0.0 0.25
standard and adapted CIELAB
LAB*LAB 39.05 38.03 -51.78
LAB*LABa 39.05 38.03 -51.78
LAB*TCHa 50.0 44.25 306.29
relative CIELAB lab*
lab*lab 0.409 0.296 -0.402
lab*tch 0.5 0.5 0.851
lab*nch 0.0 0.75 0.851
relative Natural Colour (NC)
lab*lrj 0.409 0.127 -0.483
lab*tce 0.5 0.5 0.791
lab*nce 0.25 0.5 b16r

relative Inform. Technology (IT)
olv3* 0.25 0.25 1.0 1.0
cmyn3* 0.75 0.75 0.75 0.0
olv4* 0.25 0.25 1.0 0.0
cmyn4* 0.75 0.75 0.0 0.0
standard and adapted CIELAB
LAB*LAB 46.64 57.04 -77.66
LAB*LABa 46.64 57.04 -77.66
LAB*TCHa 62.5 96.37 306.29
relative CIELAB lab*
lab*lab 0.489 0.444 -0.603
lab*tch 0.625 0.75 0.851
lab*nch 0.0 0.75 0.851
relative Natural Colour (NC)
lab*lrj 0.489 0.19 -0.724
lab*tce 0.625 0.75 0.791
lab*nce 0.0 0.75 b16r

b03

relative Inform. Technology (IT)
olv3* 0.25 0.5 0.0 1.0
cmyn3* 0.75 0.5 1.0 0.0
olv4* 0.75 1.0 0.5 0.5
cmyn4* 0.25 0.0 0.5 0.5
standard and adapted CIELAB
LAB*LAB 44.08 -25.85 42.65
LAB*LABa 44.08 -25.85 42.65
LAB*TCHa 25.01 49.88 122.23
relative CIELAB lab*
lab*lab 0.462 -0.258 0.427
lab*tch 0.25 0.5 0.337
lab*nch 0.5 0.5 0.337
relative Natural Colour (NC)
lab*lrj 0.462 -0.261 0.426
lab*tce 0.25 0.5 0.338
lab*nce 0.5 0.5 j58r

relative Inform. Technology (IT)
olv3* 0.25 0.5 0.25 1.0
cmyn3* 0.75 0.5 0.75 0.0
olv4* 0.75 1.0 0.75 0.5
cmyn4* 0.25 0.0 0.5 0.25
standard and adapted CIELAB
LAB*LAB 44.76 -20.68 19.98
LAB*LABa 44.76 -20.68 19.98
LAB*TCHa 37.5 28.76 136.01
relative CIELAB lab*
lab*lab 0.469 -0.179 0.174
lab*tch 0.375 0.25 0.378
lab*nch 0.5 0.25 0.378
relative Natural Colour (NC)
lab*lrj 0.469 -0.188 0.164
lab*tce 0.375 0.25 0.386
lab*nce 0.5 0.25 j54r

relative Inform. Technology (IT)
olv3* 0.25 0.5 0.5 1.0
cmyn3* 0.75 0.5 0.5 0.0
olv4* 0.75 1.0 1.0 0.5
cmyn4* 0.25 0.0 0.5 0.5
standard and adapted CIELAB
LAB*LAB 45.38 -11.53 -3.38
LAB*LABa 45.38 -11.53 -3.38
LAB*TCHa 37.5 12.03 196.37
relative CIELAB lab*
lab*lab 0.478 -0.239 -0.069
lab*tch 0.375 0.25 0.545
lab*nch 0.5 0.25 0.545
relative Natural Colour (NC)
lab*lrj 0.478 -0.235 -0.082
lab*tce 0.375 0.25 0.554
lab*nce 0.5 0.25 g21b

relative Inform. Technology (IT)
olv3* 0.25 0.5 0.75 1.0
cmyn3* 0.75 0.5 0.75 0.0
olv4* 0.5 0.75 1.0 0.75
cmyn4* 0.5 0.25 0.0 0.25
standard and adapted CIELAB
LAB*LAB 53.17 7.47 -29.28
LAB*LABa 53.17 7.47 -29.28
LAB*TCHa 50.0 30.22 284.31
relative CIELAB lab*
lab*lab 0.557 0.124 -0.483
lab*tch 0.5 0.5 0.79
lab*nch 0.25 0.5 0.79
relative Natural Colour (NC)
lab*lrj 0.557 -0.035 -0.498
lab*tce 0.5 0.5 0.738
lab*nce 0.25 0.5 g95b

relative Inform. Technology (IT)
olv3* 0.25 0.75 1.0 1.0
cmyn3* 0.75 0.75 0.75 0.0
olv4* 0.25 0.75 1.0 0.0
cmyn4* 0.75 0.5 0.0 0.0
standard and adapted CIELAB
LAB*LAB 60.76 26.48 -55.16
LAB*LABa 60.76 26.48 -55.16
LAB*TCHa 62.5 61.2 295.64
relative CIELAB lab*
lab*lab 0.637 0.324 -0.675
lab*tch 0.625 0.75 0.821
lab*nch 0.0 0.75 0.821
relative Natural Colour (NC)
lab*lrj 0.637 0.068 -0.746
lab*tce 0.625 0.75 0.764
lab*nce 0.0 0.75 h05r

b04

relative Inform. Technology (IT)
olv3* 0.25 0.75 0.0 1.0
cmyn3* 0.75 0.75 1.0 0.0
olv4* 0.5 1.0 0.25 0.75
cmyn4* 0.5 0.0 0.75 0.25
standard and adapted CIELAB
LAB*LAB 64.98 -46.54 62.63
LAB*LABa 64.98 -46.54 62.63
LAB*TCHa 37.51 78.04 126.62
relative CIELAB lab*
lab*lab 0.681 -0.446 0.602
lab*tch 0.375 0.75 0.352
lab*nch 0.25 0.75 0.352
relative Natural Colour (NC)
lab*lrj 0.681 -0.46 0.591
lab*tce 0.375 0.75 0.355
lab*nce 0.25 0.75 j42g

relative Inform. Technology (IT)
olv3* 0.25 0.75 0.25 1.0
cmyn3* 0.75 0.75 0.75 0.0
olv4* 0.5 1.0 0.5 0.75
cmyn4* 0.5 0.0 0.5 0.25
standard and adapted CIELAB
LAB*LAB 65.67 -41.37 39.95
LAB*LABa 65.67 -41.37 39.95
LAB*TCHa 50.0 57.52 136.01
relative CIELAB lab*
lab*lab 0.688 -0.359 0.347
lab*tch 0.5 0.5 0.378
lab*nch 0.25 0.5 0.378
relative Natural Colour (NC)
lab*lrj 0.688 -0.376 0.328
lab*tce 0.5 0.5 0.386
lab*nce 0.25 0.5 j54g

relative Inform. Technology (IT)
olv3* 0.25 0.75 0.5 1.0
cmyn3* 0.75 0.75 0.5 0.0
olv4* 0.5 1.0 0.75 0.75
cmyn4* 0.5 0.0 0.25 0.25
standard and adapted CIELAB
LAB*LAB 66.48 -32.22 16.59
LAB*LABa 66.48 -32.22 16.59
LAB*TCHa 50.0 36.25 152.77
relative CIELAB lab*
lab*lab 0.697 -0.444 0.229
lab*tch 0.5 0.5 0.424
lab*nch 0.25 0.5 0.424
relative Natural Colour (NC)
lab*lrj 0.697 -0.465 0.181
lab*tce 0.5 0.5 0.441
lab*nce 0.25 0.5 j76g

relative Inform. Technology (IT)
olv3* 0.25 0.75 0.75 1.0
cmyn3* 0.75 0.75 0.75 0.0
olv4* 0.5 1.0 1.0 0.75
cmyn4* 0.5 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 67.29 -23.08 -6.77
LAB*LABa 67.29 -23.08 -6.77
LAB*TCHa 50.0 24.06 196.37
relative CIELAB lab*
lab*lab 0.705 -0.479 -0.14
lab*tch 0.5 0.5 0.545
lab*nch 0.25 0.5 0.545
relative Natural Colour (NC)
lab*lrj 0.705 -0.471 -0.164
lab*tce 0.5 0.5 0.554
lab*nce 0.25 0.5 g21b

relative Inform. Technology (IT)
olv3* 0.25 0.75 1.0 1.0
cmyn3* 0.75 0.75 0.75 0.0
olv4* 0.25 0.75 1.0 0.0
cmyn4* 0.75 0.25 0.0 0.0
standard and adapted CIELAB
LAB*LAB 74.89 -4.07 -32.65
LAB*LABa 74.89 -4.07 -32.65
LAB*TCHa 62.5 32.92 262.88
relative CIELAB lab*
lab*lab 0.785 -0.092 -0.743
lab*tch 0.625 0.75 0.73
lab*nch 0.0 0.75 0.73
relative Natural Colour (NC)
lab*lrj 0.785 -0.26 -0.702
lab*tce 0.625 0.75 0.693
lab*nce 0.0 0.75 g77b

b05

relative Inform. Technology (IT)
olv3* 0.25 1.0 0.0 1.0
cmyn3* 0.75 0.0 1.0 0.0
olv4* 0.25 1.0 0.0 1.0
cmyn4* 0.75 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 85.88 -67.22 82.6
LAB*LABa 85.88 -67.22 82.6
LAB*TCHa 50.0 106.5 129.15
relative CIELAB lab*
lab*lab 0.9 -0.63 0.275
lab*tch 0.5 1.0 0.359
lab*nch 0.0 1.0 0.359
relative Natural Colour (NC)
lab*lrj 0.9 -0.634 0.756
lab*tce 0.5 1.0 0.364
lab*nce 0.0 1.0 j48g

relative Inform. Technology (IT)
olv3* 0.25 1.0 0.25 1.0
cmyn3* 0.75 0.0 0.75 0.0
olv4* 0.25 1.0 0.25 1.0
cmyn4* 0.75 0.0 0.75 0.0
standard and adapted CIELAB
LAB*LAB 86.57 -62.05 59.92
LAB*LABa 86.57 -62.05 59.92
LAB*TCHa 62.5 86.27 136.01
relative CIELAB lab*
lab*lab 0.916 -0.538 0.521
lab*tch 0.625 0.75 0.378
lab*nch 0.0 0.75 0.378
relative Natural Colour (NC)
lab*lrj 0.916 -0.565 0.492
lab*tce 0.625 0.75 0.386
lab*nce 0.0 0.75 j54g

relative Inform. Technology (IT)
olv3* 0.25 1.0 0.5 1.0
cmyn3* 0.75 0.0 0.5 0.0
olv4* 0.25 1.0 0.5 1.0
cmyn4* 0.75 0.0 0.5 0.0
standard and adapted CIELAB
LAB*LAB 87.38 -52.9 36.55
LAB*LABa 87.38 -52.9 36.55
LAB*TCHa 62.5 64.31 145.36
relative CIELAB lab*
lab*lab 0.916 -0.616 0.426
lab*tch 0.625 0.75 0.404
lab*nch 0.0 0.75 0.404
relative Natural Colour (NC)
lab*lrj 0.916 -0.649 0.375
lab*tce 0.625 0.75 0.417
lab*nce 0.0 0.75 j66g

relative Inform. Technology (IT)
olv3* 0.25 1.0 0.75 1.0
cmyn3* 0.75 0.0 0.25 0.0
olv4* 0.25 1.0 0.75 1.0
cmyn4* 0.75 0.0 0.25 0.0
standard and adapted CIELAB
LAB*LAB 88.19 -43.76 13.19
LAB*LABa 88.19 -43.76 13.19
LAB*TCHa 62.5 45.71 163.23
relative CIELAB lab*
lab*lab 0.924 -0.717 0.216
lab*tch 0.625 0.75 0.453
lab*nch 0.0 0.75 0.453
relative Natural Colour (NC)
lab*lrj 0.924 -0.714 0.117
lab*tce 0.625 0.75 0.475
lab*nce 0.0 0.75 j90g

relative Inform. Technology (IT)
olv3* 0.25 1.0 1.0 1.0
cmyn3* 0.75 0.0 0.0 0.0
olv4* 0.25 1.0 1.0 1.0
cmyn4* 0.75 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 89.0 -34.61 -10.16
LAB*LABa 89.0 -34.61 -10.16
LAB*TCHa 62.5 36.09 196.37
relative CIELAB lab*
lab*lab 0.931 -0.719 -0.21
lab*tch 0.625 0.75 0.545
lab*nch 0.0 0.75 0.545
relative Natural Colour (NC)
lab*lrj 0.931 -0.707 -0.247
lab*tce 0.625 0.75 0.554
lab*nce 0.0 0.75 g21b

(olv3* = 0.25, 1, 0)

(olv3* = 0.5, l3*, v3*)

c01

relative Inform. Technology (IT)	
olv3*	0.5 0.5 0.0 (1.0)
cmv3*	0.5 1.0 0.75 (0.0)
olv4*	1.0 0.5 0.5 0.5
cmv4*	0.0 0.5 0.5 0.5
standard and adapted CIELAB	
LAB*LAB	25.26 38.45 32.27
LAB*LABa	25.26 38.45 32.27
LAB*TCb	25.01 30.2 40.0
relative CIELAB lab*	
lab*lab	0.265 0.383 0.321
lab*ch	0.25 0.5 0.111
lab*nch	0.5 0.5 0.111
relative Natural Colour (NC)	
lab*lrj	0.265 0.487 0.112
lab*nce	0.25 0.25 0.036
lab*nce	0.5 0.5 r14j

B

relative Inform. Technology (IT)	
olv3*	0.5 0.5 0.0 (1.0)
cmv3*	0.5 1.0 0.75 (0.0)
olv4*	1.0 0.5 0.75 0.5
cmv4*	0.0 0.5 0.25 0.5
standard and adapted CIELAB	
LAB*LAB	26.96 42.81 1.54
LAB*LABa	26.96 42.81 1.54
LAB*TCb	25.01 42.84 2.06
relative CIELAB lab*	
lab*lab	0.282 0.5 0.018
lab*ch	0.25 0.5 0.006
lab*nch	0.5 0.5 0.006
relative Natural Colour (NC)	
lab*lrj	0.282 0.451 -0.215
lab*nce	0.25 0.25 0.029
lab*nce	0.5 0.5 b7lr

C

relative Inform. Technology (IT)	
olv3*	0.5 0.5 0.0 (1.0)
cmv3*	0.5 1.0 0.5 (0.0)
olv4*	1.0 0.5 1.0 0.5
cmv4*	0.0 0.5 0.25 0.5
standard and adapted CIELAB	
LAB*LAB	28.66 47.17 -29.19
LAB*LABa	28.66 47.17 -29.19
LAB*TCb	25.01 35.47 328.23
relative CIELAB lab*	
lab*lab	0.3 0.425 -0.262
lab*ch	0.25 0.5 0.912
lab*nch	0.5 0.5 0.912
relative Natural Colour (NC)	
lab*lrj	0.3 0.281 -0.412
lab*nce	0.25 0.25 0.845
lab*nce	0.5 0.5 b38r

D

relative Inform. Technology (IT)	
olv3*	0.5 0.5 0.0 (1.0)
cmv3*	0.5 1.0 0.25 (0.0)
olv4*	0.75 0.25 1.0 0.75
cmv4*	0.0 0.75 0.0 0.25
standard and adapted CIELAB	
LAB*LAB	36.25 66.18 -55.09
LAB*LABa	36.25 66.18 -55.09
LAB*TCb	37.51 36.11 320.22
relative CIELAB lab*	
lab*lab	0.38 0.576 -0.479
lab*ch	0.375 0.75 0.89
lab*nch	0.25 0.75 0.89
relative Natural Colour (NC)	
lab*lrj	0.38 0.342 -0.667
lab*nce	0.375 0.75 0.825
lab*nce	0.25 0.75 b30r

E

relative Inform. Technology (IT)	
olv3*	0.5 0.0 1.0 (0.0)
cmv3*	0.5 1.0 0.0 (0.0)
olv4*	0.5 0.0 1.0 1.0
cmv4*	0.5 1.0 0.0 0.0
standard and adapted CIELAB	
LAB*LAB	43.85 85.19 -80.97
LAB*LABa	43.85 85.19 -80.97
LAB*TCb	50.01 35.54 316.45
relative CIELAB lab*	
lab*lab	0.459 0.725 -0.688
lab*ch	0.5 1.0 0.879
lab*nch	0.0 1.0 0.879
relative Natural Colour (NC)	
lab*lrj	0.459 0.402 -0.914
lab*nce	0.5 1.0 0.816
lab*nce	0.0 1.0 b26r

(olv3* = 0.5, 0, 1)

System: TLS00

c02

relative Inform. Technology (IT)	
olv3*	0.5 0.25 0.0 (1.0)
cmv3*	0.5 0.75 1.0 (0.0)
olv4*	1.0 0.75 0.5 0.5
cmv4*	0.0 0.25 0.5 0.5
standard and adapted CIELAB	
LAB*LAB	35.8 14.06 38.82
LAB*LABa	35.8 14.06 38.82
LAB*TCb	25.01 41.28 70.09
relative CIELAB lab*	
lab*lab	0.375 0.17 0.47
lab*ch	0.25 0.5 0.195
lab*nch	0.5 0.5 0.195
relative Natural Colour (NC)	
lab*lrj	0.375 0.283 0.412
lab*nce	0.25 0.5 0.154
lab*nce	0.5 0.5 r61j

B

relative Inform. Technology (IT)	
olv3*	0.5 0.25 0.25 (1.0)
cmv3*	0.5 0.5 0.75 (0.0)
olv4*	1.0 0.75 0.75 0.5
cmv4*	0.0 0.25 0.25 0.5
standard and adapted CIELAB	
LAB*LAB	36.48 19.23 16.14
LAB*LABa	36.48 19.23 16.14
LAB*TCb	37.5 25.1 40.0
relative CIELAB lab*	
lab*lab	0.382 0.192 0.161
lab*ch	0.375 0.25 0.111
lab*nch	0.5 0.25 0.111
relative Natural Colour (NC)	
lab*lrj	0.382 0.244 0.056
lab*nce	0.375 0.25 0.036
lab*nce	0.5 0.25 r14j

C

relative Inform. Technology (IT)	
olv3*	0.5 0.25 0.5 (1.0)
cmv3*	0.5 0.5 0.5 (0.0)
olv4*	1.0 0.75 1.0 0.5
cmv4*	0.0 0.25 0.0 0.5
standard and adapted CIELAB	
LAB*LAB	38.18 23.59 -14.6
LAB*LABa	38.18 23.59 -14.6
LAB*TCb	37.5 37.74 328.24
relative CIELAB lab*	
lab*lab	0.4 0.213 -0.131
lab*ch	0.375 0.25 0.912
lab*nch	0.5 0.25 0.912
relative Natural Colour (NC)	
lab*lrj	0.4 0.141 -0.206
lab*nce	0.375 0.25 0.845
lab*nce	0.5 0.25 b38r

D

relative Inform. Technology (IT)	
olv3*	0.5 0.25 0.75 (1.0)
cmv3*	0.5 0.5 0.25 (0.0)
olv4*	0.75 0.5 1.0 0.75
cmv4*	0.25 0.5 0.0 0.25
standard and adapted CIELAB	
LAB*LAB	45.78 42.6 -40.49
LAB*LABa	45.78 42.6 -40.49
LAB*TCb	50.0 38.78 316.45
relative CIELAB lab*	
lab*lab	0.48 0.362 -0.343
lab*ch	0.5 0.5 0.879
lab*nch	0.0 0.75 0.879
relative Natural Colour (NC)	
lab*lrj	0.48 0.201 -0.457
lab*nce	0.5 0.5 0.816
lab*nce	0.25 0.5 b26r

E

relative Inform. Technology (IT)	
olv3*	0.5 0.25 1.0 (1.0)
cmv3*	0.5 0.5 0.0 (0.0)
olv4*	0.5 0.25 1.0 1.0
cmv4*	0.5 0.75 0.0 0.0
standard and adapted CIELAB	
LAB*LAB	53.37 61.61 -66.37
LAB*LABa	53.37 61.61 -66.37
LAB*TCb	62.5 90.57 312.86
relative CIELAB lab*	
lab*lab	0.559 0.51 -0.549
lab*ch	0.625 0.75 0.869
lab*nch	0.0 0.75 0.869
relative Natural Colour (NC)	
lab*lrj	0.559 0.263 -0.701
lab*nce	0.625 0.75 0.807
lab*nce	0.0 0.75 b22r

c03

relative Inform. Technology (IT)	
olv3*	0.5 0.5 0.0 (1.0)
cmv3*	0.5 0.5 1.0 (0.0)
olv4*	1.0 1.0 0.5 0.5
cmv4*	0.0 0.0 0.5 0.5
standard and adapted CIELAB	
LAB*LAB	46.34 -10.34 45.37
LAB*LABa	46.34 -10.34 45.37
LAB*TCb	25.01 46.53 102.85
relative CIELAB lab*	
lab*lab	0.486 -0.11 0.487
lab*ch	0.25 0.5 0.286
lab*nch	0.5 0.5 0.286
relative Natural Colour (NC)	
lab*lrj	0.486 -0.085 0.492
lab*nce	0.25 0.5 0.278
lab*nce	0.5 0.5 j11h

B

relative Inform. Technology (IT)	
olv3*	0.5 0.5 0.25 (1.0)
cmv3*	0.5 0.5 0.75 (0.0)
olv4*	1.0 1.0 0.75 0.5
cmv4*	0.0 0.0 0.25 0.5
standard and adapted CIELAB	
LAB*LAB	47.02 -5.17 22.69
LAB*LABa	47.02 -5.17 22.69
LAB*TCb	37.5 23.27 102.85
relative CIELAB lab*	
lab*lab	0.493 -0.055 0.244
lab*ch	0.375 0.25 0.286
lab*nch	0.5 0.25 0.286
relative Natural Colour (NC)	
lab*lrj	0.493 -0.042 0.246
lab*nce	0.375 0.25 0.278
lab*nce	0.5 0.25 j11h

C

relative Inform. Technology (IT)	
olv3*	0.5 0.5 0.5 (1.0)
cmv3*	0.5 0.5 0.5 (0.0)
olv4*	1.0 1.0 1.0 0.5
cmv4*	0.0 0.0 0.0 0.5
standard and adapted CIELAB	
LAB*LAB	47.2 0.0 0.0
LAB*LABa	47.2 0.0 0.0
LAB*TCb	50.0 0.0 1.0
relative CIELAB lab*	
lab*lab	0.5 0.0 0.0
lab*ch	0.5 0.0 0.0
lab*nch	0.5 0.0 0.0
relative Natural Colour (NC)	
lab*lrj	0.5 0.0 0.0
lab*nce	0.5 0.0 0.0
lab*nce	0.5 0.0 0.0

D

relative Inform. Technology (IT)	
olv3*	0.5 0.5 0.75 (1.0)
cmv3*	0.5 0.25 0.25 (0.0)
olv4*	0.75 0.75 1.0 0.75
cmv4*	0.25 0.25 0.0 0.25
standard and adapted CIELAB	
LAB*LAB	55.31 19.01 -25.89
LAB*LABa	55.31 19.01 -25.89
LAB*TCb	62.5 32.13 306.29
relative CIELAB lab*	
lab*lab	0.58 0.148 -0.201
lab*ch	0.625 0.25 0.851
lab*nch	0.25 0.25 0.851
relative Natural Colour (NC)	
lab*lrj	0.58 0.063 -0.241
lab*nce	0.625 0.25 0.791
lab*nce	0.25 0.25 b16r

E

relative Inform. Technology (IT)	
olv3*	0.5 0.5 1.0 (1.0)
cmv3*	0.5 0.5 0.0 (0.0)
olv4*	0.5 0.5 1.0 1.0
cmv4*	0.5 0.5 0.0 0.0
standard and adapted CIELAB	
LAB*LAB	62.9 38.02 -51.77
LAB*LABa	62.9 38.02 -51.77
LAB*TCb	75.0 64.24 306.29
relative CIELAB lab*	
lab*lab	0.659 0.296 -0.402
lab*ch	0.75 0.5 0.851
lab*nch	0.0 0.5 0.851
relative Natural Colour (NC)	
lab*lrj	0.659 0.127 -0.483
lab*nce	0.75 0.5 0.791
lab*nce	0.0 0.5 b16r

c04

relative Inform. Technology (IT)	
olv3*	0.5 0.75 0.0 (1.0)
cmv3*	0.5 0.25 1.0 (0.0)
olv4*	0.75 1.0 0.25 0.75
cmv4*	0.25 0.0 0.75 0.25
standard and adapted CIELAB	
LAB*LAB	67.24 -31.03 65.34
LAB*LABa	67.24 -31.03 65.34
LAB*TCb	37.51 72.34 115.41
relative CIELAB lab*	
lab*lab	0.705 -0.321 0.677
lab*ch	0.375 0.75 0.321
lab*nch	0.25 0.75 0.321
relative Natural Colour (NC)	
lab*lrj	0.705 -0.313 0.681
lab*nce	0.375 0.75 0.319
lab*nce	0.25 0.75 j27h

B

relative Inform. Technology (IT)	
olv3*	0.5 0.75 0.25 (1.0)
cmv3*	0.5 0.25 0.75 (0.0)
olv4*	0.75 1.0 0.75 0.75
cmv4*	0.25 0.0 0.5 0.25
standard and adapted CIELAB	
LAB*LAB	67.93 -25.86 42.66
LAB*LABa	67.93 -25.86 42.66
LAB*TCb	50.0 49.89 121.23
relative CIELAB lab*	
lab*lab	0.712 -0.258 0.428
lab*ch	0.5 0.5 0.337
lab*nch	0.25 0.5 0.337
relative Natural Colour (NC)	
lab*lrj	0.712 -0.261 0.426
lab*nce	0.5 0.5 0.338
lab*nce	0.25 0.5 j35h

C

relative Inform. Technology (IT)	
olv3*	0.5 0.75 0.5 (1.0)
cmv3*	0.5 0.25 0.5 (0.0)
olv4*	0.75 1.0 0.75 0.75
cmv4*	0.25 0.0 0.25 0.25
standard and adapted CIELAB	
LAB*LAB	68.61 -20.68 19.98
LAB*LABa	68.61 -20.68 19.98
LAB*TCb	62.5 28.76 136.01
relative CIELAB lab*	
lab*lab	0.719 0.179 0.174
lab*ch	0.625 0.25 0.378
lab*nch	0.25 0.25 0.378
relative Natural Colour (NC)	
lab*lrj	0.719 0.188 0.164
lab*nce	0.625 0.25 0.386
lab*nce	0.25 0.25 j34h

D

relative Inform. Technology (IT)	
olv3*	0.5 0.75 0.75 (1.0)
cmv3*	0.5 0.25 0.25 (0.0)
olv4*	0.75 1.0 1.0 0.75
cmv4*	0.25 0.0 0.0 0.25
standard and adapted CIELAB	
LAB*LAB	69.43 -11.53 -3.38
LAB*LABa	69.43 -11.53 -3.38
LAB*TCb	62.5 12.03 196.37
relative CIELAB lab*	
lab*lab	0.728 -0.239 -0.069
lab*ch	0.625 0.25 0.545
lab*nch	0.25 0.25 0.545
relative Natural Colour (NC)	
lab*lrj	0.728 -0.235 -0.082
lab*nce	0.625 0.25 0.554
lab*nce	0.25 0.25 g21b

E

relative Inform. Technology (IT)	
olv3*	0.5 0.75 1.0 (1.0)
cmv3*	0.5 0.25 0.0 (0.0)
olv4*	0.5 0.75 1.0 1.0
cmv4*	0.5 0.25 0.0 0.0
standard and adapted CIELAB	
LAB*LAB	77.02 7.46 -29.26
LAB*LABa	77.02 7.46 -29.26
LAB*TCb	75.0 30.21 284.31
relative CIELAB lab*	
lab*lab	0.807 0.124 -0.483
lab*ch	0.75 0.5 0.79
lab*nch	0.0 0.5 0.79
relative Natural Colour (NC)	
lab*lrj	0.807 -0.035 -0.498
lab*nce	0.75 0.5 0.738
lab*nce	0.0 0.5 g95b

c05

relative Inform. Technology (IT)	
olv3*	0.5 1.0 0.0 (1.0)
cmv3*	0.5 0.0 1.0 (0.0)
olv4*	0.5 1.0 0.0 1.0
cmv4*	0.5 0.0 1.0 0.0
standard and adapted CIELAB	
LAB*LAB	88.14 -51.71 85.31
LAB*LABa	88.14 -51.71 85.31
LAB*TCiHa	50.0 99.76 121.23
relative CIELAB Lab*	
lab*lab	0.924 -0.517 0.855
lab*rch	0.5 1.0 0.337
lab*rch	0.0 1.0 0.337
relative Natural Colour (NC)	
lab*lrj	0.924 -0.523 0.852
lab*tc	0.5 1.0 0.338
lab*ncf	1.0 0.0 0.338

(olv3* = 0.75, l3*, v3*)

d01

relative Inform. Technology (IT)
olv3* 0.75 0.0 0.0 (1.0)
cmyn3* 0.25 1.0 0.0 (0.0)
olv4* 1.0 0.25 0.25 0.75
cmyn4* 0.0 0.75 0.75 0.25
standard and adapted CIELAB
LAB*LAB 37.58 57.68 48.41
LAB*LABa 37.58 57.68 48.41
LAB*TCHa 37.51 75.3 40.0
relative CIELAB lab*
lab*lab 0.397 0.574 0.482
lab*tch 0.375 0.75 0.111
lab*nch 0.25 0.75 0.111
relative Natural Colour (NC)
lab*lrj 0.397 0.731 0.168
lab*tce 0.375 0.75 0.036
lab*nce 0.25 0.75 r14j

relative Inform. Technology (IT)
olv3* 0.75 0.0 0.25 (1.0)
cmyn3* 0.25 1.0 0.75 (0.0)
olv4* 1.0 0.25 0.5 0.75
cmyn4* 0.0 0.75 0.25 0.25
standard and adapted CIELAB
LAB*LAB 39.58 62.04 17.68
LAB*LABa 39.58 62.04 17.68
LAB*TCHa 37.51 64.51 15.9
relative CIELAB lab*
lab*lab 0.415 0.721 0.205
lab*tch 0.375 0.75 0.044
lab*nch 0.25 0.75 0.044
relative Natural Colour (NC)
lab*lrj 0.415 0.73 -0.172
lab*tce 0.375 0.75 0.063
lab*nce 0.25 0.75 b85c

relative Inform. Technology (IT)
olv3* 0.75 0.0 0.5 (1.0)
cmyn3* 0.25 1.0 0.5 (0.0)
olv4* 1.0 0.25 0.75 0.75
cmyn4* 0.0 0.75 0.25 0.25
standard and adapted CIELAB
LAB*LAB 41.28 66.4 -13.06
LAB*LABa 41.28 66.4 -13.06
LAB*TCHa 37.51 67.348.87
relative CIELAB lab*
lab*lab 0.433 0.736 -0.144
lab*tch 0.375 0.75 0.969
lab*nch 0.25 0.75 0.969
relative Natural Colour (NC)
lab*lrj 0.433 0.596 -0.455
lab*tce 0.375 0.75 0.969
lab*nce 0.25 0.75 b58r

relative Inform. Technology (IT)
olv3* 0.75 0.0 0.75 (1.0)
cmyn3* 0.25 1.0 0.25 (0.0)
olv4* 1.0 0.25 1.0 0.75
cmyn4* 0.0 0.75 0.25 0.25
standard and adapted CIELAB
LAB*LAB 42.98 70.75 -43.8
LAB*LABa 42.98 70.75 -43.8
LAB*TCHa 37.51 83.22 328.23
relative CIELAB lab*
lab*lab 0.45 0.638 -0.394
lab*tch 0.375 0.75 0.912
lab*nch 0.25 0.75 0.912
relative Natural Colour (NC)
lab*lrj 0.45 0.422 -0.619
lab*tce 0.375 0.75 0.845
lab*nce 0.25 0.75 b38r

relative Inform. Technology (IT)
olv3* 0.75 0.0 1.0 (1.0)
cmyn3* 0.25 1.0 0.0 (0.0)
olv4* 0.75 0.0 1.0 1.0
cmyn4* 0.25 1.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 50.57 89.76 -69.68
LAB*LABa 50.57 89.76 -69.68
LAB*TCHa 50.57 113.64 322.17
relative CIELAB lab*
lab*lab 0.53 0.79 -0.612
lab*tch 0.5 1.0 0.895
lab*nch 0.0 1.0 0.895
relative Natural Colour (NC)
lab*lrj 0.53 0.482 -0.875
lab*tce 0.5 1.0 0.83
lab*nce 0.0 1.0 b32r

(olv3* = 0.75, 0, 1)

System: TLS00

d02

relative Inform. Technology (IT)
olv3* 0.75 0.25 0.0 (1.0)
cmyn3* 0.25 0.75 1.0 (0.0)
olv4* 1.0 0.5 0.5 0.75
cmyn4* 0.0 0.5 0.75 0.25
standard and adapted CIELAB
LAB*LAB 48.42 33.29 54.95
LAB*LABa 48.42 33.29 54.95
LAB*TCHa 37.51 64.25 58.8
relative CIELAB lab*
lab*lab 0.507 0.389 0.641
lab*tch 0.375 0.75 0.163
lab*nch 0.25 0.75 0.163
relative Natural Colour (NC)
lab*lrj 0.507 0.578 0.477
lab*tce 0.375 0.75 0.11
lab*nce 0.25 0.75 r43j

relative Inform. Technology (IT)
olv3* 0.75 0.25 0.25 (1.0)
cmyn3* 0.25 0.5 0.75 (0.0)
olv4* 1.0 0.5 0.5 0.75
cmyn4* 0.0 0.5 0.5 0.25
standard and adapted CIELAB
LAB*LAB 49.11 38.46 32.28
LAB*LABa 49.11 38.46 32.28
LAB*TCHa 50.0 50.21 40.0
relative CIELAB lab*
lab*lab 0.515 0.383 0.321
lab*tch 0.5 0.5 0.111
lab*nch 0.25 0.5 0.111
relative Natural Colour (NC)
lab*lrj 0.515 0.487 0.112
lab*tce 0.5 0.5 0.036
lab*nce 0.25 0.5 r14j

relative Inform. Technology (IT)
olv3* 0.75 0.25 0.5 (1.0)
cmyn3* 0.25 0.5 0.5 (0.0)
olv4* 1.0 0.5 0.75 0.75
cmyn4* 0.0 0.5 0.25 0.25
standard and adapted CIELAB
LAB*LAB 50.81 42.82 1.53
LAB*LABa 50.81 42.82 1.53
LAB*TCHa 50.0 52.84 2.05
relative CIELAB lab*
lab*lab 0.532 0.5 0.018
lab*tch 0.5 0.5 0.006
lab*nch 0.25 0.5 0.006
relative Natural Colour (NC)
lab*lrj 0.532 0.451 -0.216
lab*tce 0.5 0.5 0.929
lab*nce 0.25 0.5 0.71r

relative Inform. Technology (IT)
olv3* 0.75 0.25 0.75 (1.0)
cmyn3* 0.25 0.5 0.25 (0.0)
olv4* 1.0 0.5 1.0 0.75
cmyn4* 0.0 0.5 0.0 0.25
standard and adapted CIELAB
LAB*LAB 52.51 47.18 -29.2
LAB*LABa 52.51 47.18 -29.2
LAB*TCHa 50.0 55.49 328.23
relative CIELAB lab*
lab*lab 0.55 0.425 -0.262
lab*tch 0.5 0.5 0.912
lab*nch 0.0 0.75 0.912
relative Natural Colour (NC)
lab*lrj 0.55 0.281 -0.412
lab*tce 0.5 0.5 0.845
lab*nce 0.25 0.5 b38r

relative Inform. Technology (IT)
olv3* 0.75 0.25 1.0 (1.0)
cmyn3* 0.25 0.5 0.0 (0.0)
olv4* 0.75 0.25 1.0 1.0
cmyn4* 0.25 0.5 0.0 0.0
standard and adapted CIELAB
LAB*LAB 60.1 66.18 -55.08
LAB*LABa 60.1 66.18 -55.08
LAB*TCHa 62.5 86.11 320.22
relative CIELAB lab*
lab*lab 0.63 0.576 -0.479
lab*tch 0.625 0.75 0.89
lab*nch 0.0 0.75 0.89
relative Natural Colour (NC)
lab*lrj 0.63 0.342 -0.667
lab*tce 0.625 0.75 0.825
lab*nce 0.0 0.75 b38r

d03

relative Inform. Technology (IT)
olv3* 0.75 0.5 0.0 (1.0)
cmyn3* 0.25 0.5 1.0 (0.0)
olv4* 1.0 0.75 0.25 0.75
cmyn4* 0.0 0.25 0.75 0.25
standard and adapted CIELAB
LAB*LAB 58.96 8.88 61.5
LAB*LABa 58.96 8.88 61.5
LAB*TCHa 37.51 62.14 81.78
relative CIELAB lab*
lab*lab 0.618 0.107 0.742
lab*tch 0.375 0.75 0.227
lab*nch 0.25 0.75 0.227
relative Natural Colour (NC)
lab*lrj 0.618 0.23 0.714
lab*tce 0.375 0.75 0.2
lab*nce 0.25 0.75 r69j

relative Inform. Technology (IT)
olv3* 0.75 0.5 0.25 (1.0)
cmyn3* 0.25 0.5 0.75 (0.0)
olv4* 1.0 0.75 0.5 0.75
cmyn4* 0.0 0.25 0.5 0.25
standard and adapted CIELAB
LAB*LAB 59.65 14.06 38.83
LAB*LABa 59.65 14.06 38.83
LAB*TCHa 50.0 41.29 70.1
relative CIELAB lab*
lab*lab 0.625 0.17 0.47
lab*tch 0.5 0.5 0.195
lab*nch 0.25 0.5 0.195
relative Natural Colour (NC)
lab*lrj 0.625 0.283 0.412
lab*tce 0.5 0.5 0.154
lab*nce 0.25 0.5 r61j

relative Inform. Technology (IT)
olv3* 0.75 0.5 0.5 (1.0)
cmyn3* 0.25 0.5 0.5 (0.0)
olv4* 1.0 0.75 0.75 0.75
cmyn4* 0.0 0.25 0.25 0.25
standard and adapted CIELAB
LAB*LAB 60.33 19.23 16.14
LAB*LABa 60.33 19.23 16.14
LAB*TCHa 62.5 25.1 40.0
relative CIELAB lab*
lab*lab 0.632 0.192 0.161
lab*tch 0.625 0.25 0.111
lab*nch 0.25 0.25 0.111
relative Natural Colour (NC)
lab*lrj 0.632 0.244 0.056
lab*tce 0.625 0.25 0.036
lab*nce 0.25 0.25 r14j

relative Inform. Technology (IT)
olv3* 0.75 0.5 0.75 (1.0)
cmyn3* 0.25 0.5 0.25 (0.0)
olv4* 1.0 0.75 1.0 0.75
cmyn4* 0.0 0.25 0.0 0.25
standard and adapted CIELAB
LAB*LAB 62.03 23.59 -14.6
LAB*LABa 62.03 23.59 -14.6
LAB*TCHa 62.5 27.74 328.24
relative CIELAB lab*
lab*lab 0.65 0.213 -0.131
lab*tch 0.625 0.25 0.912
lab*nch 0.25 0.25 0.912
relative Natural Colour (NC)
lab*lrj 0.65 0.141 -0.206
lab*tce 0.625 0.25 0.845
lab*nce 0.25 0.25 b38r

relative Inform. Technology (IT)
olv3* 0.75 0.5 1.0 (1.0)
cmyn3* 0.25 0.5 0.0 (0.0)
olv4* 0.75 0.5 1.0 1.0
cmyn4* 0.25 0.5 0.0 0.0
standard and adapted CIELAB
LAB*LAB 69.62 42.59 -40.48
LAB*LABa 69.62 42.59 -40.48
LAB*TCHa 75.0 58.77 316.45
relative CIELAB lab*
lab*lab 0.73 0.362 -0.343
lab*tch 0.75 0.5 0.879
lab*nch 0.0 0.5 0.879
relative Natural Colour (NC)
lab*lrj 0.73 0.201 -0.457
lab*tce 0.75 0.5 0.816
lab*nce 0.0 0.5 b26r

d04

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.0 (1.0)
cmyn3* 0.25 0.25 1.0 (0.0)
olv4* 1.0 1.0 0.25 0.75
cmyn4* 0.0 0.0 0.75 0.25
standard and adapted CIELAB
LAB*LAB 69.5 -15.51 68.05
LAB*LABa 69.5 -15.51 68.05
LAB*TCHa 37.51 69.8 102.85
relative CIELAB lab*
lab*lab 0.728 -0.166 0.731
lab*tch 0.375 0.75 0.286
lab*nch 0.25 0.75 0.286
relative Natural Colour (NC)
lab*lrj 0.728 -0.128 0.739
lab*tce 0.375 0.75 0.278
lab*nce 0.25 0.75 j11g

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.25 (1.0)
cmyn3* 0.25 0.25 0.75 (0.0)
olv4* 1.0 1.0 0.5 0.75
cmyn4* 0.0 0.0 0.5 0.25
standard and adapted CIELAB
LAB*LAB 70.19 -10.34 45.38
LAB*LABa 70.19 -10.34 45.38
LAB*TCHa 50.0 46.54 102.85
relative CIELAB lab*
lab*lab 0.736 -0.11 0.487
lab*tch 0.5 0.5 0.286
lab*nch 0.25 0.5 0.286
relative Natural Colour (NC)
lab*lrj 0.736 -0.085 0.492
lab*tce 0.5 0.5 0.278
lab*nce 0.25 0.5 j11g

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.5 (1.0)
cmyn3* 0.25 0.25 0.5 (0.0)
olv4* 1.0 1.0 0.75 0.75
cmyn4* 0.0 0.0 0.25 0.25
standard and adapted CIELAB
LAB*LAB 70.87 -5.17 22.69
LAB*LABa 70.87 -5.17 22.69
LAB*TCHa 62.5 23.27 102.85
relative CIELAB lab*
lab*lab 0.743 0.055 0.244
lab*tch 0.625 0.25 0.286
lab*nch 0.25 0.25 0.286
relative Natural Colour (NC)
lab*lrj 0.743 0.042 0.246
lab*tce 0.625 0.25 0.278
lab*nce 0.25 0.25 j11g

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*TCHa 75.0 0.01 -
relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.25 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.75 0.0 0.0
lab*tce 0.75 0.0 -
lab*nce 0.25 0.0 -

relative Inform. Technology (IT)
olv3* 0.75 0.75 1.0 (1.0)
cmyn3* 0.25 0.25 0.0 (0.0)
olv4* 0.75 0.75 1.0 1.0
cmyn4* 0.25 0.25 0.0 0.0
standard and adapted CIELAB
LAB*LAB 79.15 19.01 -25.87
LAB*LABa 79.15 19.01 -25.87
LAB*TCHa 87.5 32.11 306.29
relative CIELAB lab*
lab*lab 0.83 0.148 -0.2
lab*tch 0.875 0.25 0.851
lab*nch 0.0 0.25 0.851
relative Natural Colour (NC)
lab*lrj 0.83 0.063 -0.241
lab*tce 0.875 0.25 0.791
lab*nce 0.0 0.25 b16r

d05

relative Inform. Technology (IT)
olv3* 0.75 1.0 0.0 (1.0)
cmyn3* 0.25 0.0 1.0 (0.0)
olv4* 0.75 1.0 0.0 1.0
cmyn4* 0.25 0.0 0.75 0.0
standard and adapted CIELAB
LAB*LAB 90.29 -36.19 88.02
LAB*LABa 90.29 -36.19 88.02
LAB*TCHa 50.0 95.18 112.36
relative CIELAB lab*
lab*lab 0.947 -0.379 0.925
lab*tch 0.5 1.0 0.312
lab*nch 0.0 1.0 0.312
relative Natural Colour (NC)
lab*lrj 0.947 -0.36 0.933
lab*tce 0.5 1.0 0.309
lab*nce 0.0 1.0 j23g

relative Inform. Technology (IT)
olv3* 0.75 1.0 0.25 (1.0)
cmyn3* 0.25 0.0 0.75 (0.0)
olv4* 0.75 1.0 0.25 1.0
cmyn4* 0.25 0.0 0.75 0.0
standard and adapted CIELAB
LAB*LAB 91.08 -31.02 65.34
LAB*LABa 91.08 -31.02 65.34
LAB*TCHa 62.5 72.34 115.4
relative CIELAB lab*
lab*lab 0.955 -0.321 0.677
lab*tch 0.625 0.75 0.321
lab*nch 0.0 0.75 0.321
relative Natural Colour (NC)
lab*lrj 0.955 -0.313 0.681
lab*tce 0.625 0.75 0.319
lab*nce 0.0 0.75 j27g

relative Inform. Technology (IT)
olv3* 0.75 1.0 0.5 (1.0)
cmyn3* 0.25 0.0 0.5 (0.0)
olv4* 0.75 1.0 0.5 1.0
cmyn4* 0.25 0.0 0.5 0.0
standard and adapted CIELAB
LAB*LAB 91.77 -25.81 42.65
LAB*LABa 91.77 -25.81 42.65
LAB*TCHa 75.0 49.88 122.22
relative CIELAB lab*
lab*lab 0.962 0.258 0.427
lab*tch 0.75 0.5 0.337
lab*nch 0.0 0.5 0.337
relative Natural Colour (NC)
lab*lrj 0.962 0.188 0.426
lab*tce 0.75 0.5 0.338
lab*nce 0.0 0.5 j35g

relative Inform. Technology (IT)
olv3* 0.75 1.0 0.75 (1.0)
cmyn3* 0.25 0.0 0.25 (0.0)
olv4* 0.75 1.0 0.75 1.0
cmyn4* 0.25 0.0 0.25 0.0
standard and adapted CIELAB
LAB*LAB 92.46 -20.67 19.97
LAB*LABa 92.46 -20.67 19.97
LAB*TCHa 87.5 28.75 136.01
relative CIELAB lab*
lab*lab 0.969 0.179 0.174
lab*tch 0.875 0.25 0.378
lab*nch 0.0 0.25 0.378
relative Natural Colour (NC)
lab*lrj 0.969 0.188 0.164
lab*tce 0.875 0.25 0.386
lab*nce 0.0 0.25 j54g

relative Inform. Technology (IT)
olv3* 0.75 1.0 1.0 (1.0)
cmyn3* 0.25 0.0 0.0 (0.0)
olv4* 0.75 1.0 1.0 1.0
cmyn4* 0.25 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 93.27 -11.53 -3.38
LAB*LABa 93.27 -11.53 -3.38
LAB*TCHa 87.5 12.03 196.37
relative CIELAB lab*
lab*lab 0.978 0.239 -0.069
lab*tch 0.875 0.25 0.545
lab*nch 0.0 0.25 0.545
relative Natural Colour (NC)
lab*lrj 0.978 0.239 -0.082
lab*tce 0.875 0.25 0.554
lab*nce 0.0 0.25 g21b

(olv3* = 0.75, 1, 0)

LE400-7, Test chart file with 5x5x5 (=125) colours; Device dependent colour coordinates olv3* of ISO/IEC 15775:1999 as input; r3* = o3* = 0.75 = const.

BAM-test chart no. LE40; Television Luminous System (TLS)
125 colours in CIELAB and three relative device systems (DS)

input: olv* setrgbcolor
output: Startup (S) data dependend

(olv3* = 1.0, l3*, v3*)

e01

relative Inform. Technology (IT)
olv3* 1.0 0.0 0.0 (1.0)
cmyn3* 0.0 1.0 0.75 (0.0)
olv4* 1.0 0.0 0.0 1.0
cmyn4* 0.0 1.0 0.75 0.0
standard and adapted CIELAB
LAB*LAB 50.5 76.9 64.54
LAB*LABa 50.5 76.9 64.54
LAB*TCBa 50.0 100.4 40.0
relative CIELAB lab*
lab*lab 0.529 0.766 0.643
lab*tch 0.5 1.0 0.111
lab*nch 0.0 1.0 0.111
relative Natural Colour (NC)
lab*lrj 0.529 0.975 0.223
lab*tce 0.5 1.0 0.036
lab*nce 0.0 1.0 r14j

B

relative Inform. Technology (IT)
olv3* 1.0 0.0 0.25 (1.0)
cmyn3* 0.0 1.0 0.75 (0.0)
olv4* 1.0 0.0 0.25 1.0
cmyn4* 0.0 1.0 0.75 0.0
standard and adapted CIELAB
LAB*LAB 52.2 81.26 33.81
LAB*LABa 52.2 81.26 33.81
LAB*TCBa 50.0 88.01 22.59
relative CIELAB lab*
lab*lab 0.547 0.923 0.384
lab*tch 0.5 1.0 0.063
lab*nch 0.0 1.0 0.063
relative Natural Colour (NC)
lab*lrj 0.547 0.992 -0.128
lab*tce 0.5 1.0 0.979
lab*nce 0.0 1.0 b91r

C

relative Inform. Technology (IT)
olv3* 1.0 0.0 0.5 (1.0)
cmyn3* 0.0 1.0 0.5 (0.0)
olv4* 1.0 0.0 0.5 1.0
cmyn4* 0.0 1.0 0.5 0.0
standard and adapted CIELAB
LAB*LAB 53.9 85.62 3.06
LAB*LABa 53.9 85.62 3.06
LAB*TCBa 50.0 95.67 2.05
relative CIELAB lab*
lab*lab 0.565 0.999 0.036
lab*tch 0.5 1.0 0.006
lab*nch 0.0 1.0 0.006
relative Natural Colour (NC)
lab*lrj 0.565 0.901 -0.432
lab*tce 0.5 1.0 0.929
lab*nce 0.0 1.0 b71r

D

relative Inform. Technology (IT)
olv3* 1.0 0.0 0.75 (1.0)
cmyn3* 0.0 1.0 0.25 (0.0)
olv4* 1.0 0.0 0.75 1.0
cmyn4* 0.0 1.0 0.25 0.0
standard and adapted CIELAB
LAB*LAB 55.6 89.98 -27.67
LAB*LABa 55.6 89.98 -27.67
LAB*TCBa 50.0 94.14 342.9
relative CIELAB lab*
lab*lab 0.583 0.956 -0.293
lab*tch 0.5 1.0 0.953
lab*nch 0.0 1.0 0.953
relative Natural Colour (NC)
lab*lrj 0.583 0.735 -0.677
lab*tce 0.5 1.0 0.881
lab*nce 0.0 1.0 b52r

E

relative Inform. Technology (IT)
olv3* 1.0 0.0 1.0 (1.0)
cmyn3* 0.0 1.0 0.0 (0.0)
olv4* 1.0 0.0 1.0 1.0
cmyn4* 0.0 1.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 57.3 94.33 -58.4
LAB*LABa 57.3 94.33 -58.4
LAB*TCBa 50.0 110.95 328.23
relative CIELAB lab*
lab*lab 0.601 0.85 -0.525
lab*tch 0.5 1.0 0.912
lab*nch 0.0 1.0 0.912
relative Natural Colour (NC)
lab*lrj 0.601 0.562 -0.826
lab*tce 0.5 1.0 0.845
lab*nce 0.0 1.0 b38r

(olv3* = 1.0, 0, 1)

System: TLS00

e02

relative Inform. Technology (IT)
olv3* 1.0 0.25 0.0 (1.0)
cmyn3* 0.0 0.75 1.0 (0.0)
olv4* 1.0 0.25 0.0 1.0
cmyn4* 0.0 0.75 1.0 0.0
standard and adapted CIELAB
LAB*LAB 61.04 52.51 71.08
LAB*LABa 61.04 52.51 71.08
LAB*TCBa 50.0 98.38 53.55
relative CIELAB lab*
lab*lab 0.64 0.594 0.804
lab*tch 0.5 1.0 0.149
lab*nch 0.0 1.0 0.149
relative Natural Colour (NC)
lab*lrj 0.64 0.847 0.531
lab*tce 0.5 1.0 0.089
lab*nce 0.0 1.0 r35j

relative Inform. Technology (IT)
olv3* 1.0 0.25 0.25 (1.0)
cmyn3* 0.0 0.75 0.75 (0.0)
olv4* 1.0 0.25 0.25 1.0
cmyn4* 0.0 0.75 0.75 0.0
standard and adapted CIELAB
LAB*LAB 61.72 57.68 48.41
LAB*LABa 61.72 57.68 48.41
LAB*TCBa 62.5 75.3 40.0
relative CIELAB lab*
lab*lab 0.647 0.574 0.482
lab*tch 0.625 0.75 0.111
lab*nch 0.0 1.0 0.111
relative Natural Colour (NC)
lab*lrj 0.647 0.731 0.168
lab*tce 0.625 0.75 0.036
lab*nce 0.0 0.75 r14j

relative Inform. Technology (IT)
olv3* 1.0 0.25 0.5 (1.0)
cmyn3* 0.0 0.5 0.5 (0.0)
olv4* 1.0 0.25 0.5 1.0
cmyn4* 0.0 0.75 0.5 0.0
standard and adapted CIELAB
LAB*LAB 63.42 62.04 17.66
LAB*LABa 63.42 62.04 17.66
LAB*TCBa 62.5 64.51 15.89
relative CIELAB lab*
lab*lab 0.665 0.721 0.205
lab*tch 0.625 0.75 0.044
lab*nch 0.0 1.0 0.044
relative Natural Colour (NC)
lab*lrj 0.665 0.73 -0.172
lab*tce 0.625 0.75 0.963
lab*nce 0.0 0.75 r85r

relative Inform. Technology (IT)
olv3* 1.0 0.25 0.75 (1.0)
cmyn3* 0.0 0.5 0.25 (0.0)
olv4* 1.0 0.25 0.75 1.0
cmyn4* 0.0 0.75 0.25 0.0
standard and adapted CIELAB
LAB*LAB 65.12 66.4 -13.07
LAB*LABa 65.12 66.4 -13.07
LAB*TCBa 62.5 67.67 348.86
relative CIELAB lab*
lab*lab 0.683 0.736 -0.144
lab*tch 0.625 0.75 0.969
lab*nch 0.0 1.0 0.969
relative Natural Colour (NC)
lab*lrj 0.683 0.596 -0.455
lab*tce 0.625 0.75 0.896
lab*nce 0.0 0.75 b58r

relative Inform. Technology (IT)
olv3* 1.0 0.25 1.0 (1.0)
cmyn3* 0.0 0.5 0.0 (0.0)
olv4* 1.0 0.25 1.0 1.0
cmyn4* 0.0 0.75 0.0 0.0
standard and adapted CIELAB
LAB*LAB 66.82 70.75 -43.8
LAB*LABa 66.82 70.75 -43.8
LAB*TCBa 62.5 83.22 328.23
relative CIELAB lab*
lab*lab 0.7 0.638 -0.394
lab*tch 0.625 0.75 0.912
lab*nch 0.0 1.0 0.912
relative Natural Colour (NC)
lab*lrj 0.7 0.422 -0.619
lab*tce 0.625 0.75 0.845
lab*nce 0.0 0.75 b38r

e03

relative Inform. Technology (IT)
olv3* 1.0 0.5 0.0 (1.0)
cmyn3* 0.0 0.5 1.0 (0.0)
olv4* 1.0 0.5 0.0 1.0
cmyn4* 0.0 0.5 1.0 0.0
standard and adapted CIELAB
LAB*LAB 71.58 28.1 77.63
LAB*LABa 71.58 28.1 77.63
LAB*TCBa 50.0 82.56 70.1
relative CIELAB lab*
lab*lab 0.75 0.34 0.94
lab*tch 0.5 1.0 0.195
lab*nch 0.0 1.0 0.195
relative Natural Colour (NC)
lab*lrj 0.75 0.565 0.825
lab*tce 0.5 1.0 0.154
lab*nce 0.0 1.0 r61j

relative Inform. Technology (IT)
olv3* 1.0 0.5 0.25 (1.0)
cmyn3* 0.0 0.5 0.75 (0.0)
olv4* 1.0 0.5 0.25 1.0
cmyn4* 0.0 0.5 0.75 0.0
standard and adapted CIELAB
LAB*LAB 72.26 33.28 54.96
LAB*LABa 72.26 33.28 54.96
LAB*TCBa 62.5 64.25 58.8
relative CIELAB lab*
lab*lab 0.757 0.388 0.641
lab*tch 0.625 0.75 0.163
lab*nch 0.0 1.0 0.163
relative Natural Colour (NC)
lab*lrj 0.757 0.578 0.478
lab*tce 0.625 0.75 0.11
lab*nce 0.0 0.75 r43j

relative Inform. Technology (IT)
olv3* 1.0 0.5 0.5 (1.0)
cmyn3* 0.0 0.5 0.5 (0.0)
olv4* 1.0 0.5 0.5 1.0
cmyn4* 0.0 0.5 0.5 0.0
standard and adapted CIELAB
LAB*LAB 72.45 38.28 32.27
LAB*LABa 72.45 38.28 32.27
LAB*TCBa 75.0 50.2 40.0
relative CIELAB lab*
lab*lab 0.765 0.383 0.321
lab*tch 0.75 0.5 0.111
lab*nch 0.0 1.0 0.111
relative Natural Colour (NC)
lab*lrj 0.765 0.487 0.112
lab*tce 0.75 0.5 0.036
lab*nce 0.0 0.5 r14j

relative Inform. Technology (IT)
olv3* 1.0 0.5 0.75 (1.0)
cmyn3* 0.0 0.5 0.25 (0.0)
olv4* 1.0 0.5 0.75 1.0
cmyn4* 0.0 0.5 0.25 0.0
standard and adapted CIELAB
LAB*LAB 74.65 42.81 1.53
LAB*LABa 74.65 42.81 1.53
LAB*TCBa 75.0 42.84 2.04
relative CIELAB lab*
lab*lab 0.782 0.5 0.018
lab*tch 0.75 0.5 0.006
lab*nch 0.0 1.0 0.006
relative Natural Colour (NC)
lab*lrj 0.782 0.451 -0.216
lab*tce 0.75 0.5 0.929
lab*nce 0.0 0.5 b71r

relative Inform. Technology (IT)
olv3* 1.0 0.5 1.0 (1.0)
cmyn3* 0.0 0.5 0.0 (0.0)
olv4* 1.0 0.5 1.0 1.0
cmyn4* 0.0 0.5 0.0 0.0
standard and adapted CIELAB
LAB*LAB 76.35 47.17 -28.19
LAB*LABa 76.35 47.17 -28.19
LAB*TCBa 75.0 55.47 328.23
relative CIELAB lab*
lab*lab 0.8 0.425 -0.262
lab*tch 0.75 0.5 0.912
lab*nch 0.0 1.0 0.912
relative Natural Colour (NC)
lab*lrj 0.8 0.281 -0.412
lab*tce 0.75 0.5 0.845
lab*nce 0.0 0.5 b38r

e04

relative Inform. Technology (IT)
olv3* 1.0 0.75 0.0 (1.0)
cmyn3* 0.0 0.75 1.0 (0.0)
olv4* 1.0 0.75 0.0 1.0
cmyn4* 0.0 0.75 1.0 0.0
standard and adapted CIELAB
LAB*LAB 82.12 3.7 84.18
LAB*LABa 82.12 3.7 84.18
LAB*TCBa 50.0 84.27 87.48
relative CIELAB lab*
lab*lab 0.861 0.044 0.999
lab*tch 0.5 1.0 0.243
lab*nch 0.0 1.0 0.243
relative Natural Colour (NC)
lab*lrj 0.861 0.17 0.985
lab*tce 0.5 1.0 0.223
lab*nce 0.0 1.0 r69j

relative Inform. Technology (IT)
olv3* 1.0 0.75 0.25 (1.0)
cmyn3* 0.0 0.75 0.75 (0.0)
olv4* 1.0 0.75 0.25 1.0
cmyn4* 0.0 0.75 0.75 0.0
standard and adapted CIELAB
LAB*LAB 82.8 8.07 61.51
LAB*LABa 82.8 8.07 61.51
LAB*TCBa 62.5 62.14 81.79
relative CIELAB lab*
lab*lab 0.868 0.107 0.742
lab*tch 0.625 0.75 0.227
lab*nch 0.0 0.75 0.227
relative Natural Colour (NC)
lab*lrj 0.868 0.23 0.714
lab*tce 0.625 0.75 0.2
lab*nce 0.0 0.75 r80j

relative Inform. Technology (IT)
olv3* 1.0 0.75 0.5 (1.0)
cmyn3* 0.0 0.75 0.5 (0.0)
olv4* 1.0 0.75 0.5 1.0
cmyn4* 0.0 0.75 0.5 0.0
standard and adapted CIELAB
LAB*LAB 83.49 14.05 38.82
LAB*LABa 83.49 14.05 38.82
LAB*TCBa 75.0 41.28 70.11
relative CIELAB lab*
lab*lab 0.875 0.17 0.47
lab*tch 0.75 0.5 0.195
lab*nch 0.0 0.5 0.195
relative Natural Colour (NC)
lab*lrj 0.875 0.283 0.412
lab*tce 0.75 0.5 0.154
lab*nce 0.0 0.5 r61j

relative Inform. Technology (IT)
olv3* 1.0 0.75 0.75 (1.0)
cmyn3* 0.0 0.75 0.25 (0.0)
olv4* 1.0 0.75 0.75 1.0
cmyn4* 0.0 0.75 0.25 0.0
standard and adapted CIELAB
LAB*LAB 84.18 19.22 16.13
LAB*LABa 84.18 19.22 16.13
LAB*TCBa 87.5 25.09 40.0
relative CIELAB lab*
lab*lab 0.882 0.191 0.161
lab*tch 0.875 0.25 0.111
lab*nch 0.0 0.25 0.111
relative Natural Colour (NC)
lab*lrj 0.882 0.244 0.056
lab*tce 0.875 0.25 0.036
lab*nce 0.0 0.25 r14j

relative Inform. Technology (IT)
olv3* 1.0 0.75 1.0 (1.0)
cmyn3* 0.0 0.75 0.0 (0.0)
olv4* 1.0 0.75 1.0 1.0
cmyn4* 0.0 0.75 0.0 0.0
standard and adapted CIELAB
LAB*LAB 85.88 23.58 -14.59
LAB*LABa 85.88 23.58 -14.59
LAB*TCBa 87.5 27.73 328.24
relative CIELAB lab*
lab*lab 0.9 0.212 -0.131
lab*tch 0.875 0.25 0.912
lab*nch 0.0 0.25 0.912
relative Natural Colour (NC)
lab*lrj 0.9 0.141 -0.206
lab*tce 0.875 0.25 0.845
lab*nce 0.0 0.25 b38r

e05

relative Inform. Technology (IT)
olv3* 1.0 1.0 0.0 (1.0)
cmyn3* 0.0 0.0 1.0 (0.0)
olv4* 1.0 1.0 0.0 1.0
cmyn4* 0.0 0.0 1.0 0.0
standard and adapted CIELAB
LAB*LAB 92.65 -20.69 90.73
LAB*LABa 92.65 -20.69 90.73
LAB*TCBa 50.0 93.06 102.85
relative CIELAB lab*
lab*lab 0.971 -0.221 0.975
lab*tch 0.5 1.0 0.286
lab*nch 0.0 1.0 0.286
relative Natural Colour (NC)
lab*lrj 0.971 -0.172 0.985
lab*tce 0.5 1.0 0.278
lab*nce 0.0 1.0 j18j

relative Inform. Technology (IT)
olv3* 1.0 1.0 0.25 (1.0)
cmyn3* 0.0 0.0 0.75 (0.0)
olv4* 1.0 1.0 0.25 1.0
cmyn4* 0.0 0.0 0.75 0.0
standard and adapted CIELAB
LAB*LAB 93.34 -15.51 68.05
LAB*LABa 93.34 -15.51 68.05
LAB*TCBa 62.5 69.8 102.85
relative CIELAB lab*
lab*lab 0.978 0.166 0.731
lab*tch 0.625 0.75 0.286
lab*nch 0.0 0.75 0.286
relative Natural Colour (NC)
lab*lrj 0.978 0.128 0.739
lab*tce 0.625 0.75 0.278
lab*nce 0.0 0.75 j18j

relative Inform. Technology (IT)
olv3* 1.0 1.0 0.5 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 1.0
cmyn4* 0.0 0.0 0.5 0.0
standard and adapted CIELAB
LAB*LAB 94.03 -10.34 45.37
LAB*LABa 94.03 -10.34 45.37
LAB*TCBa 75.0 46.53 102.85
relative CIELAB lab*
lab*lab 0.985 0.11 0.487
lab*tch 0.75 0.5 0.286
lab*nch 0.0 0.5 0.286
relative Natural Colour (NC)
lab*lrj 0.985 0.084 0.492
lab*tce 0.75 0.5 0.278
lab*nce 0.0 0.5 j18j

relative Inform. Technology (IT)
olv3* 1.0 1.0 0.75 (1.0)
cmyn3* 0.0 0.0 0.25 (0.0)
olv4* 1.0 1.0 0.75 1.0
cmyn4* 0.0 0.0 0.25 0.0
standard and adapted CIELAB
LAB*LAB 94.71 -5.16 22.68
LAB*LABa 94.71 -5.16 22.68
LAB*TCBa 87.5 23.26 102.85
relative CIELAB lab*
lab*lab 0.993 0.055 0.244
lab*tch 0.875 0.25 0.286
lab*nch 0.0 0.25 0.286
relative Natural Colour (NC)
lab*lrj 0.993 0.026 0.246
lab*tce 0.875 0.25 0.278
lab*nce 0.0 0.25 j18j

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 1.0
cmyn4* 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*TCBa 99.99 0.01 -
relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*tce 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

(olv3* = 1.0, 1, 0)

LE400-7, Test chart file with 5x5x5 (=125) colours; Device dependent colour coordinates olv3* of ISO/IEC 15775:1999 as input; r3* = o3* = 1.0 = const.

BAM-test chart no. LE40; Television Luminous System (TLS)
125 colours in CIELAB and three relative device systems (DS)

input: olv* setrgbcolor
output: Startup (S) data dependend