

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

a01

relative Inform. Technology (IT)
olv3* 0.0 1.0 1.0 (1.0)
cmyn3* 1.0 1.0 0.75 (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 18.02 0.5 -0.47
LAB*LABa 18.02 0.0 0.0
LAB*TCRa 0.01 0.001 -
relative CIELAB lab*
lab*lab 0.0 0.0 -
lab*tch 0.0 0.0 -
lab*nch 1.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 -

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 19.94 8.23 -11.43
LAB*LABa 19.94 7.77 -11.09
LAB*TCRa 12.5 13.55 305.0
relative CIELAB lab*
lab*lab 0.025 0.143 -0.204
lab*tch 0.125 0.25 0.847
lab*nch 0.75 0.25 0.847
relative Natural Colour (NC)
lab*lrj 0.025 0.099 -0.242
lab*tce 0.125 0.25 0.788
lab*nce 0.75 0.25 b15r

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 21.87 15.97 -22.4
LAB*LABa 21.87 15.55 -22.19
LAB*TCRa 25.01 27.1 305.0
relative CIELAB lab*
lab*lab 0.05 0.287 -0.408
lab*tch 0.25 0.5 0.847
lab*nch 0.5 0.5 0.847
relative Natural Colour (NC)
lab*lrj 0.05 0.117 -0.485
lab*tce 0.25 0.5 0.788
lab*nce 0.5 0.5 b15r

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* 0.75 0.75 0.0 0.25
standard and adapted CIELAB
LAB*LAB 23.8 23.71 -33.37
LAB*LABa 23.8 23.32 -33.29
LAB*TCRa 37.51 40.66 305.0
relative CIELAB lab*
lab*lab 0.075 0.43 -0.613
lab*tch 0.375 0.75 0.847
lab*nch 0.75 0.25 0.847
relative Natural Colour (NC)
lab*lrj 0.075 0.176 -0.728
lab*tce 0.375 0.75 0.788
lab*nce 0.25 0.75 b15r

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 25.73 31.44 -44.34
LAB*LABa 25.73 31.09 -44.39
LAB*TCRa 50.0 54.21 305.0
relative CIELAB lab*
lab*lab 0.1 0.573 -0.818
lab*tch 0.5 1.0 0.847
lab*nch 1.0 0.0 0.847
relative Natural Colour (NC)
lab*lrj 0.1 0.234 -0.971
lab*tce 0.5 1.0 0.788
lab*nce 0.0 1.0 b15r

(olv3* = 0.0, 0, 1)

System: ORS18

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 26.24 -15.35 8.82
LAB*LABa 26.24 -15.69 8.74
LAB*TCRa 12.5 13.57 150.91
relative CIELAB lab*
lab*lab 0.106 -0.217 0.121
lab*tch 0.125 0.25 0.419
lab*nch 0.75 0.25 0.419
relative Natural Colour (NC)
lab*lrj 0.106 -0.228 0.099
lab*tce 0.125 0.25 0.435
lab*nce 0.75 0.25 j73g

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.25 (1.0)
cmyn3* 1.0 0.75 0.75 (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 28.17 -7.27 -11.03
LAB*LABa 28.17 -7.57 -11.24
LAB*TCRa 12.5 13.57 236.02
relative CIELAB lab*
lab*lab 0.131 -0.139 -0.206
lab*tch 0.125 0.25 0.656
lab*nch 0.75 0.25 0.656
relative Natural Colour (NC)
lab*lrj 0.131 -0.162 -0.189
lab*tce 0.125 0.25 0.637
lab*nce 0.75 0.25 g54b

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.5 (1.0)
cmyn3* 1.0 0.5 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 30.09 0.46 -22.0
LAB*LABa 30.09 0.19 -22.34
LAB*TCRa 25.01 22.36 270.49
relative CIELAB lab*
lab*lab 0.156 0.004 -0.499
lab*tch 0.25 0.5 0.751
lab*nch 0.5 0.5 0.751
relative Natural Colour (NC)
lab*lrj 0.156 -0.125 -0.483
lab*tce 0.25 0.5 0.709
lab*nce 0.5 0.5 g83b

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.75 (1.0)
cmyn3* 1.0 0.5 0.25 (0.0)
olv4* 0.25 0.5 1.0 0.75
cmyn4* 0.75 0.5 0.0 0.25
standard and adapted CIELAB
LAB*LAB 32.02 8.2 -32.97
LAB*LABa 32.02 7.97 -33.45
LAB*TCRa 37.51 44.39 283.39
relative CIELAB lab*
lab*lab 0.181 0.174 -0.729
lab*tch 0.375 0.75 0.787
lab*nch 0.75 0.25 0.787
relative Natural Colour (NC)
lab*lrj 0.181 -0.062 -0.746
lab*tce 0.375 0.75 0.737
lab*nce 0.25 0.75 g84b

relative Inform. Technology (IT)
olv3* 0.0 0.25 1.0 (1.0)
cmyn3* 1.0 0.5 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 33.95 15.93 -43.94
LAB*LABa 33.95 15.74 -44.55
LAB*TCRa 50.0 47.25 289.45
relative CIELAB lab*
lab*lab 0.206 0.333 -0.942
lab*tch 0.5 1.0 0.804
lab*nch 1.0 0.0 0.804
relative Natural Colour (NC)
lab*lrj 0.206 -0.003 -0.999
lab*tce 0.5 1.0 0.749
lab*nce 0.0 1.0 g98b

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 34.46 -31.22 18.12
LAB*LABa 34.46 -31.4 17.48
LAB*TCRa 25.01 35.95 150.91
relative CIELAB lab*
lab*lab 0.213 -0.436 0.243
lab*tch 0.25 0.5 0.419
lab*nch 0.5 0.5 0.419
relative Natural Colour (NC)
lab*lrj 0.213 -0.458 0.199
lab*tce 0.25 0.5 0.435
lab*nce 0.5 0.5 j73g

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 36.38 -23.14 1.73
LAB*LABa 36.38 -23.28 -2.5
LAB*TCRa 25.01 23.43 186.16
relative CIELAB lab*
lab*lab 0.237 -0.496 -0.053
lab*tch 0.25 0.5 0.517
lab*nch 0.5 0.5 0.517
relative Natural Colour (NC)
lab*lrj 0.237 -0.489 -0.099
lab*tce 0.25 0.5 0.532
lab*nce 0.5 0.5 g12b

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 38.32 -15.05 -21.6
LAB*LABa 38.32 -15.16 -22.5
LAB*TCRa 25.01 27.14 236.02
relative CIELAB lab*
lab*lab 0.262 -0.278 -0.414
lab*tch 0.25 0.5 0.656
lab*nch 0.5 0.5 0.656
relative Natural Colour (NC)
lab*lrj 0.262 -0.325 -0.378
lab*tce 0.25 0.5 0.637
lab*nce 0.5 0.5 g54b

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* 0.75 0.25 0.0 0.25
standard and adapted CIELAB
LAB*LAB 40.25 -7.39 -33.6
LAB*LABa 40.25 -7.39 -33.6
LAB*TCRa 37.51 44.1 257.59
relative CIELAB lab*
lab*lab 0.287 -0.16 -0.731
lab*tch 0.375 0.75 0.716
lab*nch 0.75 0.25 0.716
relative Natural Colour (NC)
lab*lrj 0.287 -0.308 -0.682
lab*tce 0.375 0.75 0.682
lab*nce 0.25 0.75 g72b

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 42.17 0.41 -43.54
LAB*LABa 42.17 0.38 -44.7
LAB*TCRa 50.0 44.71 270.48
relative CIELAB lab*
lab*lab 0.312 0.008 -0.999
lab*tch 0.5 1.0 0.751
lab*nch 1.0 0.0 0.751
relative Natural Colour (NC)
lab*lrj 0.312 -0.251 -0.966
lab*tce 0.5 1.0 0.709
lab*nce 0.0 1.0 g83b

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 42.68 -47.09 27.41
LAB*LABa 42.68 -47.11 26.21
LAB*TCRa 37.51 53.92 150.91
relative CIELAB lab*
lab*lab 0.319 -0.654 0.365
lab*tch 0.375 0.75 0.419
lab*nch 0.25 0.75 0.419
relative Natural Colour (NC)
lab*lrj 0.319 -0.687 0.298
lab*tce 0.375 0.75 0.435
lab*nce 0.25 0.75 j73g

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 0.5
cmyn4* 0.75 0.0 0.5 0.25
standard and adapted CIELAB
LAB*LAB 44.61 -39.0 7.35
LAB*LABa 44.61 -38.99 6.23
LAB*TCRa 37.51 33.81 204.03
relative CIELAB lab*
lab*lab 0.344 -0.74 -0.118
lab*tch 0.375 0.75 0.475
lab*nch 0.25 0.75 0.475
relative Natural Colour (NC)
lab*lrj 0.344 -0.749 0.0
lab*tce 0.375 0.75 0.5
lab*nce 0.25 0.75 g00b

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 0.75 0.5
cmyn4* 0.75 0.0 0.25 0.25
standard and adapted CIELAB
LAB*LAB 46.54 -30.82 12.3
LAB*LABa 46.54 -30.87 13.76
LAB*TCRa 37.51 33.81 204.03
relative CIELAB lab*
lab*lab 0.369 -0.684 -0.304
lab*tch 0.375 0.75 0.567
lab*nch 0.25 0.75 0.567
relative Natural Colour (NC)
lab*lrj 0.369 -0.678 -0.317
lab*tce 0.375 0.75 0.57
lab*nce 0.25 0.75 g27b

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 48.47 -22.03 32.17
LAB*LABa 48.47 -22.75 -33.75
LAB*TCRa 37.51 40.72 236.02
relative CIELAB lab*
lab*lab 0.394 -0.418 -0.621
lab*tch 0.375 0.75 0.656
lab*nch 0.25 0.75 0.656
relative Natural Colour (NC)
lab*lrj 0.394 -0.488 -0.568
lab*tce 0.375 0.75 0.637
lab*nce 0.25 0.75 g54b

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 50.4 -15.1 -43.13
LAB*LABa 50.4 -14.98 -44.85
LAB*TCRa 50.0 47.3 251.53
relative CIELAB lab*
lab*lab 0.418 -0.316 -0.947
lab*tch 0.5 1.0 0.699
lab*nch 0.0 1.0 0.699
relative Natural Colour (NC)
lab*lrj 0.418 -0.483 -0.874
lab*tce 0.5 1.0 0.67
lab*nce 0.0 1.0 g67b

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 1.0 1.0
cmyn4* 1.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 50.9 -62.81 34.95
LAB*LABa 50.9 -62.81 34.95
LAB*TCRa 50.0 71.89 150.91
relative CIELAB lab*
lab*lab 0.425 -0.873 0.486
lab*tch 0.5 1.0 0.419
lab*nch 0.0 1.0 0.419
relative Natural Colour (NC)
lab*lrj 0.425 -0.916 0.398
lab*tce 0.5 1.0 0.435
lab*nce 0.0 1.0 j73g

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 52.83 -54.7 14.96
LAB*LABa 52.83 -54.7 14.96
LAB*TCRa 50.0 56.71 164.7
relative CIELAB lab*
lab*lab 0.445 -0.963 0.264
lab*tch 0.5 1.0 0.458
lab*nch 0.0 1.0 0.458
relative Natural Colour (NC)
lab*lrj 0.445 -0.991 0.126
lab*tce 0.5 1.0 0.48
lab*nce 0.0 1.0 j91g

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 54.76 -46.57 -0.01
LAB*LABa 54.76 -46.57 -0.02
LAB*TCRa 50.0 46.85 186.17
relative CIELAB lab*
lab*lab 0.475 -0.993 -0.106
lab*tch 0.5 1.0 0.517
lab*nch 0.0 1.0 0.517
relative Natural Colour (NC)
lab*lrj 0.475 -0.978 -0.2
lab*tce 0.5 1.0 0.532
lab*nce 0.0 1.0 g12b

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 56.69 -38.45 -25.02
LAB*LABa 56.69 -38.45 -25.02
LAB*TCRa 50.0 45.89 213.05
relative CIELAB lab*
lab*lab 0.5 -0.837 -0.544
lab*tch 0.5 1.0 0.592
lab*nch 0.0 1.0 0.592
relative Natural Colour (NC)
lab*lrj 0.5 -0.827 -0.528
lab*tce 0.5 1.0 0.589
lab*nce 0.0 1.0 g35b

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 58.62 -30.61 -42.73
LAB*LABa 58.62 -30.33 -45.01
LAB*TCRa 50.0 54.29 236.02
relative CIELAB lab*
lab*lab 0.525 -0.558 -0.828
lab*tch 0.5 1.0 0.656
lab*nch 0.0 1.0 0.656
relative Natural Colour (NC)
lab*lrj 0.525 -0.651 -0.757
lab*tce 0.5 1.0 0.637
lab*nce 0.0 1.0 g54b

(olv3* = 0.0, 1, 0)

LE390-7, 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. LE39; Offset reflective system (ORS)

125 colours in CIELAB and three relative device systems (DS)

input: olv* setrgbcolor

output: Startup (S) data depend

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

b01

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.0 (1.0)
cmyn3* 0.75 1.0 0.0 (0.0)
olv4* 1.0 0.75 0.25 0.25
cmyn4* 0.0 0.25 0.5 0.75
standard and adapted CIELAB
LAB*LAB 25.5 16.7 12.66
LAB*LABa 25.5 16.34 12.62
LAB*LABb 12.5 20.65 37.69
relative CIELAB lab*
lab*lab 0.097 0.198 0.153
lab*tch 0.125 0.25 0.105
lab*nch 0.75 0.25 0.105
relative Natural Colour (NC)
lab*lrj 0.097 0.246 0.042
lab*tce 0.125 0.25 0.027
lab*nce 0.75 0.25 0.10

B

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 25.54 19.17 -2.04
LAB*LABa 25.54 18.81 -2.08
LAB*LABb 12.5 18.93 353.66
relative CIELAB lab*
lab*lab 0.097 0.248 -0.027
lab*tch 0.125 0.25 0.982
lab*nch 0.75 0.25 0.982
relative Natural Colour (NC)
lab*lrj 0.097 0.209 -0.136
lab*tce 0.125 0.25 0.908
lab*nce 0.75 0.25 0.63c

C

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.5 (1.0)
cmyn3* 0.75 1.0 0.5 (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 27.47 26.9 -13.01
LAB*LABa 27.47 26.59 -13.18
LAB*LABb 25.01 29.68 333.61
relative CIELAB lab*
lab*lab 0.122 0.448 -0.221
lab*tch 0.25 0.5 0.927
lab*nch 0.5 0.5 0.927
relative Natural Colour (NC)
lab*lrj 0.122 0.315 -0.387
lab*tce 0.25 0.5 0.908
lab*nce 0.5 0.5 0.43c

D

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.75 (1.0)
cmyn3* 0.75 1.0 0.25 (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 29.4 34.64 -23.99
LAB*LABa 29.4 34.36 -24.29
LAB*LABb 29.01 32.08 324.74
relative CIELAB lab*
lab*lab 0.147 0.612 -0.432
lab*tch 0.375 0.75 0.902
lab*nch 0.25 0.75 0.902
relative Natural Colour (NC)
lab*lrj 0.147 0.387 -0.641
lab*tce 0.375 0.75 0.836
lab*nce 0.25 0.75 0.534c

E

relative Inform. Technology (IT)
olv3* 0.25 0.0 1.0 (1.0)
cmyn3* 0.75 1.0 0.0 (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 31.33 42.38 -34.95
LAB*LABa 31.33 42.13 -35.38
LAB*LABb 31.01 39.51 42.08
relative CIELAB lab*
lab*lab 0.172 0.766 -0.642
lab*tch 0.5 1.0 0.889
lab*nch 0.0 1.0 0.889
relative Natural Colour (NC)
lab*lrj 0.172 0.452 -0.891
lab*tce 0.5 1.0 0.825
lab*nce 0.0 1.0 0.29c

(olv3* = 0.25, 0, 1)

System: ORS18

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 0.25
standard and adapted CIELAB
LAB*LAB 36.1 -2.4 23.68
LAB*LABa 36.1 -2.56 22.93
LAB*LABb 12.5 23.07 96.38
relative CIELAB lab*
lab*lab 0.234 -0.027 0.248
lab*tch 0.125 0.25 0.268
lab*nch 0.75 0.25 0.268
relative Natural Colour (NC)
lab*lrj 0.234 -0.009 0.25
lab*tce 0.125 0.25 0.256
lab*nce 0.75 0.25 0.02c

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.5 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 37.36 0.13 0.83
LAB*LABa 37.36 0.0 0.0
LAB*LABb 12.5 23.07 0.01
relative CIELAB lab*
lab*lab 0.25 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 0.0
lab*nce 0.75 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.5 (1.0)
cmyn3* 0.75 0.5 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 39.29 7.87 -10.13
LAB*LABa 39.29 7.77 -11.09
LAB*LABb 37.5 13.55 305.0
relative CIELAB lab*
lab*lab 0.275 0.143 -0.204
lab*tch 0.375 0.25 0.847
lab*nch 0.5 0.25 0.847
relative Natural Colour (NC)
lab*lrj 0.275 0.059 -0.242
lab*tce 0.375 0.25 0.788
lab*nce 0.5 0.25 0.15c

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.75 (1.0)
cmyn3* 0.75 0.5 0.25 (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 41.22 15.6 -21.1
LAB*LABa 41.22 15.55 -22.2
LAB*LABb 37.5 13.55 305.0
relative CIELAB lab*
lab*lab 0.3 0.287 -0.409
lab*tch 0.5 0.5 0.847
lab*nch 0.0 0.75 0.847
relative Natural Colour (NC)
lab*lrj 0.3 0.117 -0.485
lab*tce 0.5 0.5 0.788
lab*nce 0.25 0.5 0.15c

relative Inform. Technology (IT)
olv3* 0.25 0.25 1.0 (1.0)
cmyn3* 0.75 0.5 0.0 (0.0)
olv4* 0.25 0.25 1.0 1.0
cmyn4* 0.75 0.75 0.0 0.0
standard and adapted CIELAB
LAB*LAB 43.14 23.34 -32.07
LAB*LABa 43.14 23.32 -33.29
LAB*LABb 43.14 23.32 -33.29
relative CIELAB lab*
lab*lab 0.325 0.43 -0.613
lab*tch 0.625 0.75 0.847
lab*nch 0.0 0.75 0.847
relative Natural Colour (NC)
lab*lrj 0.325 0.176 -0.728
lab*tce 0.625 0.75 0.788
lab*nce 0.0 0.75 0.15c

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 44.32 -18.27 32.98
LAB*LABa 44.32 -18.26 31.67
LAB*LABb 25.01 36.56 119.99
relative CIELAB lab*
lab*lab 0.34 -0.249 0.433
lab*tch 0.25 0.5 0.333
lab*nch 0.5 0.5 0.333
relative Natural Colour (NC)
lab*lrj 0.34 -0.25 0.432
lab*tce 0.25 0.5 0.334
lab*nce 0.5 0.5 0.33c

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 0.25 0.5
standard and adapted CIELAB
LAB*LAB 45.58 -15.73 10.13
LAB*LABa 45.58 -15.7 8.74
LAB*LABb 37.5 17.98 150.91
relative CIELAB lab*
lab*lab 0.356 -0.217 0.122
lab*tch 0.375 0.25 0.419
lab*nch 0.5 0.25 0.419
relative Natural Colour (NC)
lab*lrj 0.356 -0.228 0.1
lab*tce 0.375 0.25 0.435
lab*nce 0.5 0.25 0.13c

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 0.0 0.5
standard and adapted CIELAB
LAB*LAB 47.51 -7.64 -9.72
LAB*LABa 47.51 -7.58 -11.25
LAB*LABb 37.5 13.57 236.02
relative CIELAB lab*
lab*lab 0.381 -0.139 -0.206
lab*tch 0.375 0.25 0.656
lab*nch 0.5 0.25 0.656
relative Natural Colour (NC)
lab*lrj 0.381 -0.162 -0.189
lab*tce 0.375 0.25 0.637
lab*nce 0.5 0.25 0.54b

relative Inform. Technology (IT)
olv3* 0.25 0.5 0.75 (1.0)
cmyn3* 0.75 0.5 0.25 (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 49.44 0.08 -20.7
LAB*LABa 49.44 0.19 -22.35
LAB*LABb 50.0 22.36 270.48
relative CIELAB lab*
lab*lab 0.406 0.004 -0.499
lab*tch 0.5 0.5 0.751
lab*nch 0.25 0.5 0.751
relative Natural Colour (NC)
lab*lrj 0.406 -0.125 -0.483
lab*tce 0.5 0.5 0.709
lab*nce 0.25 0.5 0.83b

relative Inform. Technology (IT)
olv3* 0.25 0.5 1.0 (1.0)
cmyn3* 0.75 0.5 0.0 (0.0)
olv4* 0.25 0.5 1.0 1.0
cmyn4* 0.75 0.5 0.0 0.0
standard and adapted CIELAB
LAB*LAB 51.37 7.82 -31.66
LAB*LABa 51.37 7.96 -33.45
LAB*LABb 51.37 7.96 -33.45
relative CIELAB lab*
lab*lab 0.431 0.174 -0.729
lab*tch 0.625 0.75 0.787
lab*nch 0.0 0.75 0.787
relative Natural Colour (NC)
lab*lrj 0.431 -0.062 -0.746
lab*tce 0.625 0.75 0.737
lab*nce 0.0 0.75 0.94b

b04

relative Inform. Technology (IT)
olv3* 0.25 0.75 0.0 (1.0)
cmyn3* 0.75 0.25 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 52.55 -34.14 42.27
LAB*LABa 52.55 -33.97 40.41
LAB*LABb 37.51 52.8 130.07
relative CIELAB lab*
lab*lab 0.446 -0.482 0.574
lab*tch 0.375 0.75 0.361
lab*nch 0.25 0.75 0.361
relative Natural Colour (NC)
lab*lrj 0.446 -0.501 0.557
lab*tce 0.375 0.75 0.367
lab*nce 0.25 0.75 0.46c

relative Inform. Technology (IT)
olv3* 0.25 0.75 0.25 (1.0)
cmyn3* 0.75 0.25 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 53.81 -31.6 19.43
LAB*LABa 53.81 -31.41 17.48
LAB*LABb 37.51 52.8 130.07
relative CIELAB lab*
lab*lab 0.462 -0.436 0.243
lab*tch 0.462 -0.436 0.243
lab*nch 0.25 0.5 0.419
relative Natural Colour (NC)
lab*lrj 0.462 -0.458 0.199
lab*tce 0.462 -0.458 0.199
lab*nce 0.25 0.5 0.435

relative Inform. Technology (IT)
olv3* 0.25 0.75 0.5 (1.0)
cmyn3* 0.75 0.25 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 55.74 -23.51 -0.43
LAB*LABa 55.74 -23.29 -2.51
LAB*LABb 37.51 52.8 130.07
relative CIELAB lab*
lab*lab 0.487 -0.496 -0.053
lab*tch 0.5 0.5 0.517
lab*nch 0.25 0.5 0.517
relative Natural Colour (NC)
lab*lrj 0.487 -0.489 -0.1
lab*tce 0.5 0.5 0.532
lab*nce 0.25 0.5 0.12b

relative Inform. Technology (IT)
olv3* 0.25 0.75 0.75 (1.0)
cmyn3* 0.75 0.25 0.25 (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 57.67 -15.43 -20.29
LAB*LABa 57.67 -15.16 -22.5
LAB*LABb 37.51 52.8 130.07
relative CIELAB lab*
lab*lab 0.512 -0.278 -0.414
lab*tch 0.5 0.5 0.656
lab*nch 0.25 0.5 0.656
relative Natural Colour (NC)
lab*lrj 0.512 -0.325 -0.378
lab*tce 0.5 0.5 0.637
lab*nce 0.25 0.5 0.54b

relative Inform. Technology (IT)
olv3* 0.25 0.75 1.0 (1.0)
cmyn3* 0.75 0.25 0.0 (0.0)
olv4* 0.25 0.75 1.0 1.0
cmyn4* 0.75 0.25 0.0 0.0
standard and adapted CIELAB
LAB*LAB 59.59 -7.69 -31.26
LAB*LABa 59.59 -7.39 -33.6
LAB*LABb 59.59 -7.39 -33.6
relative CIELAB lab*
lab*lab 0.531 -0.16 -0.731
lab*tch 0.625 0.75 0.715
lab*nch 0.0 0.75 0.715
relative Natural Colour (NC)
lab*lrj 0.531 -0.308 -0.682
lab*tce 0.625 0.75 0.682
lab*nce 0.0 0.75 0.72b

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 60.76 -49.68 49.14
LAB*LABa 60.76 -49.68 49.14
LAB*LABb 60.76 -49.68 49.14
relative CIELAB lab*
lab*lab 0.552 -0.71 0.703
lab*tch 0.5 1.0 0.376
lab*nch 0.0 1.0 0.376
relative Natural Colour (NC)
lab*lrj 0.552 -0.744 0.667
lab*tce 0.5 1.0 0.384
lab*nce 0.0 1.0 0.38c

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 62.02 -47.11 26.21
LAB*LABa 62.02 -47.11 26.21
LAB*LABb 62.5 53.92 150.91
relative CIELAB lab*
lab*lab 0.569 -0.654 0.365
lab*tch 0.625 0.75 0.419
lab*nch 0.0 0.75 0.419
relative Natural Colour (NC)
lab*lrj 0.569 -0.687 0.298
lab*tce 0.625 0.75 0.435
lab*nce 0.0 0.75 0.13c

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 63.95 -38.89 6.22
LAB*LABa 63.95 -38.89 6.22
LAB*LABb 62.5 53.92 150.91
relative CIELAB lab*
lab*lab 0.594 -0.74 0.118
lab*tch 0.625 0.75 0.475
lab*nch 0.0 0.75 0.475
relative Natural Colour (NC)
lab*lrj 0.594 -0.769 0.0
lab*tce 0.625 0.75 0.5
lab*nce 0.0 0.75 0.00b

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 65.88 -30.87 -13.77
LAB*LABa 65.88 -30.87 -13.77
LAB*LABb 62.5 53.92 150.91
relative CIELAB lab*
lab*lab 0.619 -0.84 -0.305
lab*tch 0.625 0.75 0.567
lab*nch 0.0 0.75 0.567
relative Natural Colour (NC)
lab*lrj 0.619 -0.849 -0.317
lab*tce 0.625 0.75 0.57
lab*nce 0.0 0.75 0.27b

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 67.81 -22.75 -33.75
LAB*LABa 67.81 -22.75 -33.75
LAB*LABb 62.5 53.92 150.91
relative CIELAB lab*
lab*lab 0.643 -0.848 -0.621
lab*tch 0.625 0.75 0.656
lab*nch 0.0 0.75 0.656
relative Natural Colour (NC)
lab*lrj 0.643 -0.888 -0.568
lab*tce 0.625 0.75 0.637
lab*nce 0.0 0.75 0.54b

(olv3* = 0.25, 1, 0)

LE390-7, Test chart file with 5x5x5 (=125) colours; Device dependent colour coordinates olv3* of ISO/IEC 15775:1999 as input; r3* = o3* = 0.25 = const.

BAM-test chart no. LE39; Offset reflective system (ORS)

125 colours in CIELAB and three relative device systems (DS)

input: olv* setrgbcolor

output: Startup (S) data dependent

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

c01

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.5 1.0
cmyn3* 0.5 1.0 0.75 0.0
olv4* 1.0 0.5 0.5 0.5
cmyn4* 0.0 0.5 0.5 0.5
standard and adapted CIELAB
LAB*LAB 32.98 32.9 25.8
LAB*LABa 32.98 32.69 25.25
LAB*TCHa 25.01 41.31 37.69
relative CIELAB lab*
lab*lab 0.193 0.396 0.306
lab*tch 0.25 0.5 0.105
lab*nch 0.5 0.5 0.105
relative Natural Colour (NC)
lab*lrj 0.193 0.493 0.084
lab*tce 0.25 0.5 0.027
lab*nce 0.5 0.5 r10j

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.5 1.0
cmyn3* 0.5 1.0 0.75 0.0
olv4* 1.0 0.5 0.75 0.5
cmyn4* 0.0 0.5 0.75 0.5
standard and adapted CIELAB
LAB*LAB 33.03 35.37 11.08
LAB*LABa 33.03 35.16 10.54
LAB*TCHa 25.01 36.7 16.69
relative CIELAB lab*
lab*lab 0.194 0.479 0.144
lab*tch 0.25 0.5 0.046
lab*nch 0.5 0.5 0.046
relative Natural Colour (NC)
lab*lrj 0.194 0.488 -0.108
lab*tce 0.25 0.5 0.965
lab*nce 0.5 0.5 b85c

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.5 1.0
cmyn3* 0.5 1.0 0.5 0.0
olv4* 1.0 0.5 1.0 0.5
cmyn4* 0.0 0.5 0.25 0.5
standard and adapted CIELAB
LAB*LAB 33.07 37.84 -3.62
LAB*LABa 33.07 37.63 -4.17
LAB*TCHa 25.01 37.86 353.66
relative CIELAB lab*
lab*lab 0.195 0.497 -0.054
lab*tch 0.25 0.5 0.982
lab*nch 0.5 0.5 0.982
relative Natural Colour (NC)
lab*lrj 0.195 0.419 -0.272
lab*tce 0.25 0.5 0.908
lab*nce 0.5 0.5 b63r

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.5 1.0
cmyn3* 0.5 1.0 0.25 0.0
olv4* 0.75 0.25 1.0 0.75
cmyn4* 0.25 0.0 0.5 0.25
standard and adapted CIELAB
LAB*LAB 35.0 45.58 -14.6
LAB*LABa 35.0 45.41 -15.27
LAB*TCHa 37.51 47.91 341.4
relative CIELAB lab*
lab*lab 0.22 0.711 -0.238
lab*tch 0.375 0.75 0.948
lab*nch 0.25 0.75 0.948
relative Natural Colour (NC)
lab*lrj 0.22 0.539 -0.52
lab*tce 0.375 0.75 0.978
lab*nce 0.25 0.75 b51r

relative Inform. Technology (IT)
olv3* 0.5 0.0 1.0 0.0
cmyn3* 0.5 1.0 0.0 0.0
olv4* 0.5 0.0 1.0 1.0
cmyn4* 0.5 1.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 36.93 53.31 -25.56
LAB*LABa 36.93 53.18 -26.37
LAB*TCHa 50.0 59.36 333.61
relative CIELAB lab*
lab*lab 0.244 0.896 -0.443
lab*tch 0.5 1.0 0.927
lab*nch 0.0 1.0 0.927
relative Natural Colour (NC)
lab*lrj 0.244 0.629 -0.776
lab*tce 0.5 1.0 0.958
lab*nce 0.0 1.0 b43c

(olv3* = 0.5, 0, 1)

System: ORS18

c02

relative Inform. Technology (IT)
olv3* 0.5 0.25 0.0 1.0
cmyn3* 0.5 0.75 1.0 0.0
olv4* 1.0 0.75 0.5 0.5
cmyn4* 0.0 0.25 0.5 0.5
standard and adapted CIELAB
LAB*LAB 43.58 13.79 36.82
LAB*LABa 43.58 13.78 35.56
LAB*TCHa 25.01 38.13 68.82
relative CIELAB lab*
lab*lab 0.33 0.181 0.466
lab*tch 0.25 0.5 0.191
lab*nch 0.5 0.5 0.191
relative Natural Colour (NC)
lab*lrj 0.33 0.296 0.403
lab*tce 0.25 0.5 0.149
lab*nce 0.5 0.5 r59j

relative Inform. Technology (IT)
olv3* 0.5 0.25 0.25 1.0
cmyn3* 0.5 0.5 0.75 0.0
olv4* 1.0 0.75 0.75 0.5
cmyn4* 0.0 0.25 0.25 0.5
standard and adapted CIELAB
LAB*LAB 44.84 16.33 13.97
LAB*LABa 44.84 16.35 12.63
LAB*TCHa 37.5 20.66 37.69
relative CIELAB lab*
lab*lab 0.347 0.198 0.153
lab*tch 0.375 0.25 0.105
lab*nch 0.5 0.5 0.105
relative Natural Colour (NC)
lab*lrj 0.347 0.246 0.042
lab*tce 0.375 0.25 0.027
lab*nce 0.5 0.25 r19j

relative Inform. Technology (IT)
olv3* 0.5 0.25 0.5 1.0
cmyn3* 0.5 0.5 0.5 0.0
olv4* 1.0 0.75 1.0 0.5
cmyn4* 0.0 0.25 0.0 0.5
standard and adapted CIELAB
LAB*LAB 44.89 18.8 -0.74
LAB*LABa 44.89 18.82 -2.08
LAB*TCHa 37.5 39.94 353.66
relative CIELAB lab*
lab*lab 0.347 0.248 -0.027
lab*tch 0.375 0.25 0.982
lab*nch 0.5 0.5 0.982
relative Natural Colour (NC)
lab*lrj 0.347 0.209 -0.136
lab*tce 0.375 0.25 0.908
lab*nce 0.5 0.25 b63r

relative Inform. Technology (IT)
olv3* 0.5 0.25 0.75 1.0
cmyn3* 0.5 0.5 0.25 0.0
olv4* 0.75 0.5 1.0 0.75
cmyn4* 0.25 0.5 0.0 0.25
standard and adapted CIELAB
LAB*LAB 46.82 26.54 -11.71
LAB*LABa 46.82 26.59 -13.18
LAB*TCHa 50.0 59.69 333.61
relative CIELAB lab*
lab*lab 0.372 0.448 -0.221
lab*tch 0.5 0.5 0.927
lab*nch 0.0 0.75 0.902
relative Natural Colour (NC)
lab*lrj 0.372 0.315 -0.387
lab*tce 0.5 0.5 0.858
lab*nce 0.25 0.5 b43r

relative Inform. Technology (IT)
olv3* 0.5 0.25 1.0 1.0
cmyn3* 0.5 0.5 0.0 0.0
olv4* 0.5 0.25 1.0 1.0
cmyn4* 0.5 0.75 0.0 0.0
standard and adapted CIELAB
LAB*LAB 48.74 34.27 -22.68
LAB*LABa 48.74 34.37 -24.28
LAB*TCHa 62.5 42.08 324.74
relative CIELAB lab*
lab*lab 0.397 0.612 -0.432
lab*tch 0.625 0.75 0.902
lab*nch 0.0 0.75 0.902
relative Natural Colour (NC)
lab*lrj 0.397 0.388 -0.641
lab*tce 0.625 0.75 0.836
lab*nce 0.0 0.75 b34r

c03

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.0 1.0
cmyn3* 0.5 0.5 1.0 0.0
olv4* 1.0 1.0 0.5 0.5
cmyn4* 0.0 0.0 0.5 0.5
standard and adapted CIELAB
LAB*LAB 54.19 -5.32 47.84
LAB*LABa 54.19 -5.12 45.87
LAB*TCHa 25.01 46.15 96.38
relative CIELAB lab*
lab*lab 0.467 -0.055 0.497
lab*tch 0.25 0.5 0.268
lab*nch 0.5 0.5 0.268
relative Natural Colour (NC)
lab*lrj 0.467 -0.019 0.499
lab*tce 0.25 0.5 0.256
lab*nce 0.5 0.5 j02g

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.25 1.0
cmyn3* 0.5 0.5 0.75 0.0
olv4* 1.0 1.0 0.75 0.5
cmyn4* 0.0 0.0 0.25 0.5
standard and adapted CIELAB
LAB*LAB 55.45 -2.56 22.94
LAB*LABa 55.45 -2.58 22.94
LAB*TCHa 37.5 23.08 96.38
relative CIELAB lab*
lab*lab 0.484 -0.027 0.248
lab*tch 0.375 0.25 0.268
lab*nch 0.5 0.25 0.268
relative Natural Colour (NC)
lab*lrj 0.484 -0.009 0.25
lab*tce 0.375 0.25 0.256
lab*nce 0.5 0.25 j02g

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 1.0
cmyn3* 0.5 0.5 0.5 0.0
olv4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 56.71 0.21 0.14
LAB*LABa 56.71 0.0 -
LAB*TCHa 50.0 0.01 -
relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 -
lab*nch 0.5 0.0 -
relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*tce 0.5 0.0 -
lab*nce 0.5 0.0 -

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.75 1.0
cmyn3* 0.5 0.5 0.25 0.0
olv4* 0.75 0.75 1.0 0.75
cmyn4* 0.25 0.25 0.0 0.25
standard and adapted CIELAB
LAB*LAB 58.64 7.49 -8.82
LAB*LABa 58.64 7.77 -11.09
LAB*TCHa 62.5 13.55 305.0
relative CIELAB lab*
lab*lab 0.525 0.143 -0.204
lab*tch 0.625 0.25 0.847
lab*nch 0.25 0.25 0.847
relative Natural Colour (NC)
lab*lrj 0.525 0.059 -0.242
lab*tce 0.625 0.25 0.788
lab*nce 0.25 0.25 b15r

relative Inform. Technology (IT)
olv3* 0.5 0.5 1.0 1.0
cmyn3* 0.5 0.5 0.0 0.0
olv4* 0.5 0.5 1.0 1.0
cmyn4* 0.5 0.5 0.0 0.0
standard and adapted CIELAB
LAB*LAB 60.56 15.23 -19.79
LAB*LABa 60.56 15.55 -22.19
LAB*TCHa 75.0 27.1 305.0
relative CIELAB lab*
lab*lab 0.55 0.287 -0.408
lab*tch 0.75 0.5 0.847
lab*nch 0.0 0.5 0.847
relative Natural Colour (NC)
lab*lrj 0.55 0.117 -0.485
lab*tce 0.75 0.5 0.788
lab*nce 0.0 0.5 b15r

c04

relative Inform. Technology (IT)
olv3* 0.5 0.75 0.0 1.0
cmyn3* 0.5 0.25 1.0 0.0
olv4* 0.75 1.0 0.25 0.75
cmyn4* 0.25 0.0 0.75 0.25
standard and adapted CIELAB
LAB*LAB 62.41 -21.19 57.14
LAB*LABa 62.41 -20.83 54.61
LAB*TCHa 37.51 58.45 119.98
relative CIELAB lab*
lab*lab 0.574 -0.266 0.701
lab*tch 0.375 0.75 0.308
lab*nch 0.25 0.75 0.308
relative Natural Colour (NC)
lab*lrj 0.574 -0.248 0.707
lab*tce 0.375 0.75 0.304
lab*nce 0.25 0.75 j21g

relative Inform. Technology (IT)
olv3* 0.5 0.75 0.25 1.0
cmyn3* 0.5 0.25 0.75 0.0
olv4* 0.75 1.0 0.75 0.75
cmyn4* 0.25 0.0 0.5 0.25
standard and adapted CIELAB
LAB*LAB 63.67 -18.65 34.29
LAB*LABa 63.67 -18.27 31.68
LAB*TCHa 50.0 36.57 119.98
relative CIELAB lab*
lab*lab 0.59 -0.249 0.433
lab*tch 0.5 0.5 0.333
lab*nch 0.25 0.5 0.333
relative Natural Colour (NC)
lab*lrj 0.59 -0.25 0.433
lab*tce 0.5 0.5 0.334
lab*nce 0.25 0.5 j33g

relative Inform. Technology (IT)
olv3* 0.5 0.75 0.5 1.0
cmyn3* 0.5 0.5 0.5 0.0
olv4* 0.75 1.0 0.75 0.75
cmyn4* 0.25 0.0 0.25 0.25
standard and adapted CIELAB
LAB*LAB 64.93 -16.1 11.44
LAB*LABa 64.93 -15.7 8.74
LAB*TCHa 62.5 17.98 150.91
relative CIELAB lab*
lab*lab 0.606 -0.217 0.122
lab*tch 0.625 0.25 0.419
lab*nch 0.25 0.25 0.419
relative Natural Colour (NC)
lab*lrj 0.606 0.228 0.1
lab*tce 0.625 0.25 0.435
lab*nce 0.25 0.25 j73g

relative Inform. Technology (IT)
olv3* 0.5 0.75 0.75 1.0
cmyn3* 0.5 0.25 0.25 0.0
olv4* 0.75 1.0 1.0 0.75
cmyn4* 0.25 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 66.86 -8.02 -8.42
LAB*LABa 66.86 -7.58 -11.25
LAB*TCHa 62.5 13.57 236.02
relative CIELAB lab*
lab*lab 0.631 -0.139 -0.206
lab*tch 0.625 0.25 0.656
lab*nch 0.25 0.25 0.656
relative Natural Colour (NC)
lab*lrj 0.631 -0.162 -0.189
lab*tce 0.625 0.25 0.637
lab*nce 0.25 0.25 g54b

relative Inform. Technology (IT)
olv3* 0.5 0.75 1.0 1.0
cmyn3* 0.5 0.25 0.0 0.0
olv4* 0.5 0.75 1.0 1.0
cmyn4* 0.5 0.25 0.0 0.0
standard and adapted CIELAB
LAB*LAB 68.79 -0.28 -19.38
LAB*LABa 68.79 0.18 -22.34
LAB*TCHa 75.0 22.36 270.47
relative CIELAB lab*
lab*lab 0.656 0.004 -0.499
lab*tch 0.75 0.5 0.751
lab*nch 0.0 0.5 0.751
relative Natural Colour (NC)
lab*lrj 0.656 -0.125 -0.483
lab*tce 0.75 0.5 0.709
lab*nce 0.0 0.5 g63b

c05

relative Inform. Technology (IT)
olv3* 0.5 1.0 0.0 1.0
cmyn3* 0.5 0.0 1.0 0.0
olv4* 0.5 1.0 0.0 1.0
cmyn4* 0.5 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 70.63 -36.53 63.34
LAB*LABa 70.63 -36.53 63.34
LAB*TCHa 50.0 73.13 119.98
relative CIELAB lab*
lab*lab 0.58 -0.499 0.866
lab*tch 0.5 1.0 0.333
lab*nch 0.0 1.0 0.333
relative Natural Colour (NC)
lab*lrj 0.58 -0.501 0.865
lab*tce 0.5 1.0 0.334
lab*nce 0.0 1.0 j33g

relative Inform. Technology (IT)
olv3* 0.5 1.0 0.25 1.0
cmyn3* 0.5 0.0 0.75 0.0
olv4* 0.5 1.0 0.0 1.0
cmyn4* 0.5 0.0 0.75 0.0
standard and adapted CIELAB
LAB*LAB 71.89 -34.51 63.58
LAB*LABa 71.89 -33.97 40.41
LAB*TCHa 62.5 52.8 130.06
relative CIELAB lab*
lab*lab 0.59 0.096 0.482 0.574
lab*tch 0.625 0.75 0.361
lab*nch 0.0 0.75 0.361
relative Natural Colour (NC)
lab*lrj 0.59 0.096 0.501 0.557
lab*tce 0.625 0.75 0.367
lab*nce 0.0 0.75 j40g

relative Inform. Technology (IT)
olv3* 0.5 1.0 0.5 1.0
cmyn3* 0.5 0.0 0.5 0.0
olv4* 0.5 1.0 0.5 0.5
cmyn4* 0.5 0.0 0.5 0.0
standard and adapted CIELAB
LAB*LAB 73.15 -31.58 20.73
LAB*LABa 73.15 -31.4 17.48
LAB*TCHa 75.0 35.95 150.91
relative CIELAB lab*
lab*lab 0.712 0.436 0.243
lab*tch 0.75 0.5 0.419
lab*nch 0.0 0.5 0.419
relative Natural Colour (NC)
lab*lrj 0.712 0.458 0.199
lab*tce 0.75 0.5 0.435
lab*nce 0.0 0.5 j73g

relative Inform. Technology (IT)
olv3* 0.5 1.0 0.75 1.0
cmyn3* 0.5 0.0 0.25 0.0
olv4* 0.5 1.0 0.75 1.0
cmyn4* 0.5 0.0 0.25 0.0
standard and adapted CIELAB
LAB*LAB 75.08 -23.28 -2.51
LAB*LABa 75.08 23.43 186.18
relative CIELAB lab*
lab*lab 0.737 0.496 -0.053
lab*tch 0.75 0.5 0.517
lab*nch 0.0 0.5 0.517
relative Natural Colour (NC)
lab*lrj 0.737 0.489 -0.1
lab*tce 0.75 0.5 0.532
lab*nce 0.0 0.5 g12b

relative Inform. Technology (IT)
olv3* 0.5 1.0 1.0 1.0
cmyn3* 0.5 0.0 0.0 0.0
olv4* 0.5 1.0 1.0 1.0
cmyn4* 0.5 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 77.01 -15.8 -19.98
LAB*LABa 77.01 -15.16 -22.5
LAB*TCHa 75.0 27.14 236.02
relative CIELAB lab*
lab*lab 0.762 0.278 -0.414
lab*tch 0.75 0.5 0.656
lab*nch 0.0 0.5 0.656
relative Natural Colour (NC)
lab*lrj 0.762 0.25 -0.378
lab*tce 0.75 0.5 0.637
lab*nce 0.0 0.5 g54b

(olv3* = 0.5, 1, 0)

LE390-7, Test chart file with 5x5x5 (=125) colours; Device dependent colour coordinates olv3* of ISO/IEC 15775:1999 as input; r3* = o3* = 0.5 = const.

BAM-test chart no. LE39; Offset reflective system (ORS)

125 colours in CIELAB and three relative device systems (DS)

input: olv* setrgbcolor

output: Startup (S) data dependend

(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 0.25 0.25
standard and adapted CIELAB
 LAB*LAB 40.46 49.1 38.93
 LAB*LABa 40.46 49.03 37.88
 LAB*TCHa 37.51 61.96 37.69
relative CIELAB lab*
 lab*lab 0.29 0.593 0.458
 lab*tch 0.375 0.75 0.105
 lab*nch 0.25 0.75 0.105
relative Natural Colour (NC)
 lab*lrj 0.29 0.739 0.126
 lab*trc 0.375 0.75 0.027
 lab*nce 0.25 0.75 r10j

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 0.5 0.25
standard and adapted CIELAB
 LAB*LAB 40.51 51.57 24.22
 LAB*LABa 40.51 51.51 23.17
 LAB*TCHa 37.51 56.48 24.22
relative CIELAB lab*
 lab*lab 0.291 0.684 0.308
 lab*tch 0.375 0.75 0.067
 lab*nch 0.25 0.75 0.067
relative Natural Colour (NC)
 lab*lrj 0.291 0.746 -0.077
 lab*trc 0.375 0.75 0.084
 lab*nce 0.25 0.75 b93r

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 0.5 0.25
standard and adapted CIELAB
 LAB*LAB 40.56 54.04 9.5
 LAB*LABa 40.56 53.98 8.45
 LAB*TCHa 37.51 54.64 8.89
relative CIELAB lab*
 lab*lab 0.291 0.741 0.116
 lab*tch 0.375 0.75 0.025
 lab*nch 0.25 0.75 0.025
relative Natural Colour (NC)
 lab*lrj 0.291 0.707 -0.25
 lab*trc 0.375 0.75 0.084
 lab*nce 0.25 0.75 b78r

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 0.0
standard and adapted CIELAB
 LAB*LAB 40.6 56.52 -5.21
 LAB*LABa 40.6 56.45 -6.26
 LAB*TCHa 37.51 56.8 353.66
relative CIELAB lab*
 lab*lab 0.292 0.745 -0.082
 lab*tch 0.375 0.75 0.982
 lab*nch 0.25 0.75 0.982
relative Natural Colour (NC)
 lab*lrj 0.292 0.628 -0.409
 lab*trc 0.375 0.75 0.908
 lab*nce 0.25 0.75 b63r

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* 0.0 0.0 1.0 0.0
standard and adapted CIELAB
 LAB*LAB 42.53 64.25 -16.17
 LAB*LABa 42.53 64.22 -17.36
 LAB*TCHa 37.51 50.0 66.53 344.86
relative CIELAB lab*
 lab*lab 0.317 0.965 -0.26
 lab*tch 0.5 1.0 0.958
 lab*nch 0.0 1.0 0.958
relative Natural Colour (NC)
 lab*lrj 0.317 0.755 -0.655
 lab*trc 0.5 1.0 0.986
 lab*nce 0.0 1.0 b54r

(olv3* = 0.75, 0, 1)

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 0.5 0.25
standard and adapted CIELAB
 LAB*LAB 51.07 29.99 49.95
 LAB*LABa 51.07 30.13 48.19
 LAB*TCHa 37.51 56.83 57.99
relative CIELAB lab*
 lab*lab 0.427 0.398 0.636
 lab*tch 0.375 0.75 0.161
 lab*nch 0.25 0.75 0.161
relative Natural Colour (NC)
 lab*lrj 0.427 0.588 0.466
 lab*trc 0.375 0.75 0.107
 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 52.33 32.53 27.11
 LAB*LABa 52.33 32.69 25.26
 LAB*TCHa 50.0 41.31 37.69
relative CIELAB lab*
 lab*lab 0.443 0.396 0.306
 lab*tch 0.5 0.5 0.105
 lab*nch 0.25 0.5 0.105
relative Natural Colour (NC)
 lab*lrj 0.443 0.493 0.084
 lab*trc 0.5 0.5 0.027
 lab*nce 0.25 0.5 r19j

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 52.37 35.0 12.39
 LAB*LABa 52.37 35.17 10.58
 LAB*TCHa 50.0 36.71 16.68
relative CIELAB lab*
 lab*lab 0.444 0.479 0.144
 lab*tch 0.5 0.5 0.046
 lab*nch 0.25 0.5 0.046
relative Natural Colour (NC)
 lab*lrj 0.444 0.488 -0.108
 lab*trc 0.5 0.5 0.965
 lab*nce 0.25 0.5 b85r

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 52.42 37.48 -2.32
 LAB*LABa 52.42 37.64 -4.17
 LAB*TCHa 50.0 37.67 353.66
relative CIELAB lab*
 lab*lab 0.445 0.497 -0.054
 lab*tch 0.5 0.5 0.982
 lab*nch 0.0 0.75 0.948
relative Natural Colour (NC)
 lab*lrj 0.445 0.419 -0.272
 lab*trc 0.5 0.5 0.908
 lab*nce 0.25 0.5 b63r

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* 0.0 0.25 0.0 0.0
standard and adapted CIELAB
 LAB*LAB 54.35 45.21 -13.29
 LAB*LABa 54.35 45.41 -15.27
 LAB*TCHa 62.5 47.91 341.4
relative CIELAB lab*
 lab*lab 0.469 0.711 -0.238
 lab*tch 0.625 0.75 0.948
 lab*nch 0.0 0.75 0.948
relative Natural Colour (NC)
 lab*lrj 0.469 0.539 -0.52
 lab*trc 0.625 0.75 0.878
 lab*nce 0.0 0.75 b51r

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 61.67 10.87 60.98
 LAB*LABa 61.67 11.21 58.5
 LAB*TCHa 37.51 59.56 79.15
relative CIELAB lab*
 lab*lab 0.564 0.141 0.736
 lab*tch 0.375 0.75 0.22
 lab*nch 0.25 0.75 0.22
relative Natural Colour (NC)
 lab*lrj 0.564 0.276 0.697
 lab*trc 0.375 0.75 0.19
 lab*nce 0.25 0.75 r75j

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 62.93 13.78 35.57
 LAB*LABa 62.93 13.78 35.57
 LAB*TCHa 50.0 38.14 68.82
relative CIELAB lab*
 lab*lab 0.581 0.181 0.466
 lab*tch 0.5 0.5 0.191
 lab*nch 0.25 0.5 0.191
relative Natural Colour (NC)
 lab*lrj 0.58 0.296 0.403
 lab*trc 0.5 0.5 0.149
 lab*nce 0.25 0.5 r39j

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 64.19 15.98 15.28
 LAB*LABa 64.19 16.35 12.63
 LAB*TCHa 62.5 20.66 37.69
relative CIELAB lab*
 lab*lab 0.597 0.198 0.153
 lab*tch 0.625 0.25 0.105
 lab*nch 0.25 0.25 0.105
relative Natural Colour (NC)
 lab*lrj 0.597 0.246 0.042
 lab*trc 0.625 0.25 0.027
 lab*nce 0.25 0.25 r10j

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 64.24 18.43 0.56
 LAB*LABa 64.24 18.82 -2.08
 LAB*TCHa 62.5 18.94 353.66
relative CIELAB lab*
 lab*lab 0.597 0.248 -0.027
 lab*tch 0.625 0.25 0.982
 lab*nch 0.25 0.25 0.982
relative Natural Colour (NC)
 lab*lrj 0.597 0.209 -0.136
 lab*trc 0.625 0.25 0.908
 lab*nce 0.25 0.25 b63r

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* 0.0 0.25 0.0 0.0
standard and adapted CIELAB
 LAB*LAB 66.17 26.16 -10.4
 LAB*LABa 66.17 26.59 -13.18
 LAB*TCHa 75.0 29.68 333.62
relative CIELAB lab*
 lab*lab 0.622 0.448 -0.221
 lab*tch 0.75 0.5 0.927
 lab*nch 0.0 0.5 0.927
relative Natural Colour (NC)
 lab*lrj 0.622 0.315 -0.387
 lab*trc 0.75 0.5 0.858
 lab*nce 0.0 0.5 b43r

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 72.28 -8.23 72.0
 LAB*LABa 72.28 -7.69 68.8
 LAB*TCHa 37.51 69.23 96.38
relative CIELAB lab*
 lab*lab 0.701 -0.082 0.745
 lab*tch 0.375 0.75 0.268
 lab*nch 0.25 0.75 0.268
relative Natural Colour (NC)
 lab*lrj 0.701 -0.029 0.749
 lab*trc 0.375 0.75 0.256
 lab*nce 0.25 0.75 j02g

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 73.54 -5.69 49.16
 LAB*LABa 73.54 -5.12 45.88
 LAB*TCHa 50.0 46.16 96.38
relative CIELAB lab*
 lab*lab 0.717 -0.055 0.497
 lab*tch 0.5 0.5 0.268
 lab*nch 0.25 0.5 0.268
relative Natural Colour (NC)
 lab*lrj 0.717 -0.019 0.5
 lab*trc 0.5 0.5 0.256
 lab*nce 0.25 0.5 j02g

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 74.8 -3.15 36.3
 LAB*LABa 74.8 -2.56 22.94
 LAB*TCHa 62.5 23.08 96.38
relative CIELAB lab*
 lab*lab 0.734 -0.027 0.248
 lab*tch 0.625 0.25 0.268
 lab*nch 0.25 0.25 0.268
relative Natural Colour (NC)
 lab*lrj 0.734 -0.009 0.25
 lab*trc 0.625 0.25 0.256
 lab*nce 0.25 0.25 j02g

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 76.08 -0.61 3.44
 LAB*LABa 76.06 0.0 0.0
 LAB*TCHa 75.0 0.01 -
relative CIELAB lab*
 lab*lab 0.775 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 0.775 0.0 0.0
 lab*trc 0.75 0.0 0.0
 lab*nce 0.25 0.0 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* 0.0 0.25 0.0 0.0
standard and adapted CIELAB
 LAB*LAB 77.99 7.12 -7.51
 LAB*LABa 77.99 7.77 -11.09
 LAB*TCHa 87.5 13.55 305.0
relative CIELAB lab*
 lab*lab 0.775 0.143 -0.204
 lab*tch 0.875 0.25 0.847
 lab*nch 0.0 0.25 0.847
relative Natural Colour (NC)
 lab*lrj 0.775 0.059 -0.242
 lab*trc 0.875 0.25 0.788
 lab*nce 0.0 0.25 b15r

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 80.5 -24.1 81.9
 LAB*LABa 80.5 -23.39 77.54
 LAB*TCHa 50.0 80.99 106.79
relative CIELAB lab*
 lab*lab 0.807 -0.288 0.957
 lab*tch 0.5 1.0 0.297
 lab*nch 0.0 1.0 0.297
relative Natural Colour (NC)
 lab*lrj 0.807 -0.251 0.968
 lab*trc 0.5 1.0 0.291
 lab*nce 0.0 1.0 j18g

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 81.76 -20.83 54.61
 LAB*LABa 81.76 -20.83 54.61
 LAB*TCHa 62.5 58.45 110.88
relative CIELAB lab*
 lab*lab 0.814 -0.266 0.701
 lab*tch 0.625 0.75 0.308
 lab*nch 0.0 0.75 0.308
relative Natural Colour (NC)
 lab*lrj 0.814 -0.248 0.707
 lab*trc 0.625 0.75 0.334
 lab*nce 0.0 0.75 j21g

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 83.02 -19.5 36.0
 LAB*LABa 83.02 -18.26 31.67
 LAB*TCHa 75.0 36.56 119.98
relative CIELAB lab*
 lab*lab 0.824 -0.249 0.433
 lab*tch 0.75 0.5 0.333
 lab*nch 0.0 0.5 0.333
relative Natural Colour (NC)
 lab*lrj 0.824 -0.248 0.432
 lab*trc 0.75 0.5 0.334
 lab*nce 0.0 0.5 j33g

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 84.28 -16.47 12.74
 LAB*LABa 84.28 -15.69 8.74
 LAB*TCHa 87.5 17.97 150.91
relative CIELAB lab*
 lab*lab 0.850 -0.217 0.121
 lab*tch 0.875 0.25 0.419
 lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
 lab*lrj 0.850 -0.228 0.099
 lab*trc 0.875 0.25 0.435
 lab*nce 0.0 0.25 j73g

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 86.21 -8.39 -7.1
 LAB*LABa 86.21 -7.57 -11.24
 LAB*TCHa 87.5 13.57 236.02
relative CIELAB lab*
 lab*lab 0.881 -0.139 -0.206
 lab*tch 0.875 0.25 0.656
 lab*nch 0.0 0.25 0.656
relative Natural Colour (NC)
 lab*lrj 0.881 -0.162 -0.189
 lab*trc 0.875 0.25 0.637
 lab*nce 0.0 0.25 g54b

(olv3* = 0.75, 1, 0)

(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 47.94 65.3 52.06
LAB*LABa 47.94 67.37 50.51
LAB*LABb 50.0 82.61 37.69
relative CIELAB lab*
lab*lab 0.387 0.791 0.611
lab*tch 0.5 1.0 0.105
lab*nch 0.0 1.0 0.105
relative Natural Colour (NC)
lab*lrj 0.387 0.986 0.167
lab*tce 0.5 1.0 0.027
lab*nce 0.0 1.0 r10

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 47.99 67.77 37.35
LAB*LABa 47.99 67.85 35.79
LAB*LABb 50.0 76.71 27.81
relative CIELAB lab*
lab*lab 0.387 0.884 0.467
lab*tch 0.5 1.0 0.077
lab*nch 0.0 1.0 0.077
relative Natural Colour (NC)
lab*lrj 0.387 0.999 -0.047
lab*tce 0.5 1.0 0.092
lab*nce 0.0 1.0 b96c

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 48.04 70.24 22.63
LAB*LABa 48.04 70.32 21.07
LAB*LABb 50.0 34.1 16.68
relative CIELAB lab*
lab*lab 0.388 0.958 0.287
lab*tch 0.5 1.0 0.046
lab*nch 0.0 1.0 0.046
relative Natural Colour (NC)
lab*lrj 0.388 0.976 -0.218
lab*tce 0.5 1.0 0.965
lab*nce 0.0 1.0 b85c

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 48.08 72.71 7.91
LAB*LABa 48.08 72.79 6.35
LAB*LABb 50.0 73.07 4.99
relative CIELAB lab*
lab*lab 0.389 0.996 0.087
lab*tch 0.5 1.0 0.014
lab*nch 0.0 1.0 0.014
relative Natural Colour (NC)
lab*lrj 0.389 0.92 -0.391
lab*tce 0.5 1.0 0.936
lab*nce 0.0 1.0 b74c

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 48.13 75.18 -6.79
LAB*LABa 48.13 75.26 -8.35
LAB*LABb 50.0 75.73 353.66
relative CIELAB lab*
lab*lab 0.389 0.994 -0.109
lab*tch 0.5 1.0 0.982
lab*nch 0.0 1.0 0.982
relative Natural Colour (NC)
lab*lrj 0.389 0.837 -0.546
lab*tce 0.5 1.0 0.908
lab*nce 0.0 1.0 b63c

(olv3* = 1.0, 0, 1)

System: ORS18

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 58.55 46.19 63.08
LAB*LABa 58.55 46.47 60.81
LAB*LABb 50.0 76.53 52.62
relative CIELAB lab*
lab*lab 0.524 0.607 0.794
lab*tch 0.5 1.0 0.146
lab*nch 0.0 1.0 0.146
relative Natural Colour (NC)
lab*lrj 0.524 0.859 0.512
lab*tce 0.5 1.0 0.086
lab*nce 0.0 1.0 r34

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 59.8 48.73 40.24
LAB*LABa 59.8 49.03 37.88
LAB*LABb 50.0 62.5 61.96 37.69
relative CIELAB lab*
lab*lab 0.54 0.593 0.458
lab*tch 0.625 0.75 0.105
lab*nch 0.0 1.0 0.105
relative Natural Colour (NC)
lab*lrj 0.54 0.739 0.126
lab*tce 0.625 0.75 0.027
lab*nce 0.0 0.75 r19

relative Inform. Technology (IT)
olv3* 1.0 0.25 0.5 (1.0)
cmyn3* 0.0 0.75 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 59.85 51.2 25.52
LAB*LABa 59.85 51.51 23.16
LAB*LABb 50.0 62.5 56.47 24.21
relative CIELAB lab*
lab*lab 0.541 0.684 0.308
lab*tch 0.625 0.75 0.067
lab*nch 0.0 1.0 0.067
relative Natural Colour (NC)
lab*lrj 0.541 0.746 -0.077
lab*tce 0.625 0.75 0.983
lab*nce 0.0 0.75 r93c

relative Inform. Technology (IT)
olv3* 1.0 0.25 0.75 (1.0)
cmyn3* 0.0 0.75 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 59.9 53.67 10.8
LAB*LABa 59.9 53.98 8.45
LAB*LABb 50.0 62.5 44.64 8.89
relative CIELAB lab*
lab*lab 0.541 0.741 0.116
lab*tch 0.625 0.75 0.025
lab*nch 0.0 1.0 0.025
relative Natural Colour (NC)
lab*lrj 0.541 0.707 -0.25
lab*tce 0.625 0.75 0.946
lab*nce 0.0 0.75 b78c

relative Inform. Technology (IT)
olv3* 1.0 0.25 1.0 (1.0)
cmyn3* 0.0 0.75 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 59.95 56.15 -3.9
LAB*LABa 59.95 56.45 -6.26
LAB*LABb 50.0 62.5 56.8 353.66
relative CIELAB lab*
lab*lab 0.542 0.745 -0.082
lab*tch 0.625 0.75 0.982
lab*nch 0.0 1.0 0.982
relative Natural Colour (NC)
lab*lrj 0.542 0.628 -0.409
lab*tce 0.625 0.75 0.908
lab*nce 0.0 0.75 b63c

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 69.15 27.07 24.1
LAB*LABa 70.41 30.12 48.19
LAB*LABb 50.0 76.27 68.82
relative CIELAB lab*
lab*lab 0.661 0.361 0.932
lab*tch 0.5 1.0 0.191
lab*nch 0.0 1.0 0.191
relative Natural Colour (NC)
lab*lrj 0.661 0.591 0.806
lab*tce 0.5 1.0 0.149
lab*nce 0.0 1.0 r59

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 70.41 30.12 48.19
LAB*LABa 70.41 30.12 48.19
LAB*LABb 50.0 76.27 68.82
relative CIELAB lab*
lab*lab 0.677 0.397 0.636
lab*tch 0.625 0.75 0.161
lab*nch 0.0 1.0 0.161
relative Natural Colour (NC)
lab*lrj 0.677 0.588 0.466
lab*tce 0.625 0.75 0.107
lab*nce 0.0 0.75 r45

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 71.67 32.15 28.41
LAB*LABa 71.67 32.69 25.25
LAB*LABb 50.0 75.0 41.31 37.69
relative CIELAB lab*
lab*lab 0.693 0.396 0.306
lab*tch 0.75 0.5 0.105
lab*nch 0.0 1.0 0.105
relative Natural Colour (NC)
lab*lrj 0.693 0.493 0.084
lab*tce 0.75 0.5 0.027
lab*nce 0.0 0.5 r10

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 71.7 34.6 13.69
LAB*LABa 71.72 35.16 10.53
LAB*LABb 50.0 75.0 36.7 16.68
relative CIELAB lab*
lab*lab 0.694 0.479 0.143
lab*tch 0.75 0.5 0.046
lab*nch 0.0 1.0 0.046
relative Natural Colour (NC)
lab*lrj 0.694 0.488 -0.108
lab*tce 0.75 0.5 0.965
lab*nce 0.0 0.5 b85c

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 71.7 37.1 -1.01
LAB*LABa 71.77 37.63 -4.17
LAB*LABb 50.0 75.0 37.96 353.66
relative CIELAB lab*
lab*lab 0.695 0.497 -0.054
lab*tch 0.75 0.5 0.982
lab*nch 0.0 1.0 0.982
relative Natural Colour (NC)
lab*lrj 0.695 0.419 -0.272
lab*tce 0.75 0.5 0.908
lab*nce 0.0 0.5 b63c

e04

relative Inform. Technology (IT)
olv3* 1.0 0.75 0.0 (1.0)
cmyn3* 0.0 0.25 1.0 (0.0)
olv4* 1.0 0.75 0.0 1.0
cmyn4* 0.0 0.25 1.0 0.0
standard and adapted CIELAB
LAB*LAB 79.76 7.95 85.13
LAB*LABa 79.76 8.64 81.43
LAB*LABb 50.0 81.89 83.94
relative CIELAB lab*
lab*lab 0.798 0.106 0.994
lab*tch 0.5 1.0 0.233
lab*nch 0.0 1.0 0.233
relative Natural Colour (NC)
lab*lrj 0.798 0.256 0.966
lab*tce 0.5 1.0 0.209
lab*nce 0.0 1.0 r83

relative Inform. Technology (IT)
olv3* 1.0 0.75 0.25 (1.0)
cmyn3* 0.0 0.25 0.75 (0.0)
olv4* 1.0 0.75 0.25 1.0
cmyn4* 0.0 0.25 0.75 0.0
standard and adapted CIELAB
LAB*LAB 81.02 10.49 62.29
LAB*LABa 81.02 11.21 58.5
LAB*LABb 50.0 75.0 59.56 79.16
relative CIELAB lab*
lab*lab 0.814 0.141 0.737
lab*tch 0.625 0.75 0.22
lab*nch 0.0 0.75 0.22
relative Natural Colour (NC)
lab*lrj 0.814 0.276 0.697
lab*tce 0.625 0.75 0.19
lab*nce 0.0 0.75 r75

relative Inform. Technology (IT)
olv3* 1.0 0.75 0.5 (1.0)
cmyn3* 0.0 0.25 0.5 (0.0)
olv4* 1.0 0.75 0.5 1.0
cmyn4* 0.0 0.25 0.5 0.0
standard and adapted CIELAB
LAB*LAB 82.28 13.04 39.43
LAB*LABa 82.28 13.77 35.56
LAB*LABb 50.0 75.0 38.14 68.83
relative CIELAB lab*
lab*lab 0.83 0.181 0.466
lab*tch 0.75 0.5 0.191
lab*nch 0.0 0.5 0.191
relative Natural Colour (NC)
lab*lrj 0.83 0.296 0.403
lab*tce 0.75 0.5 0.149
lab*nce 0.0 0.5 r59

relative Inform. Technology (IT)
olv3* 1.0 0.75 0.75 (1.0)
cmyn3* 0.0 0.25 0.25 (0.0)
olv4* 1.0 0.75 0.75 1.0
cmyn4* 0.0 0.25 0.25 0.0
standard and adapted CIELAB
LAB*LAB 83.54 15.38 16.58
LAB*LABa 83.54 16.34 12.62
LAB*LABb 50.0 75.0 20.65 37.69
relative CIELAB lab*
lab*lab 0.847 0.198 0.153
lab*tch 0.875 0.25 0.105
lab*nch 0.0 0.25 0.105
relative Natural Colour (NC)
lab*lrj 0.847 0.246 0.042
lab*tce 0.875 0.25 0.027
lab*nce 0.0 0.25 r10

relative Inform. Technology (IT)
olv3* 1.0 0.75 1.0 (1.0)
cmyn3* 0.0 0.25 0.0 (0.0)
olv4* 1.0 0.75 1.0 1.0
cmyn4* 0.0 0.25 0.0 0.0
standard and adapted CIELAB
LAB*LAB 83.59 18.05 1.87
LAB*LABa 83.59 18.81 -2.08
LAB*LABb 50.0 75.0 18.93 353.66
relative CIELAB lab*
lab*lab 0.847 0.248 -0.027
lab*tch 0.875 0.25 0.982
lab*nch 0.0 0.25 0.982
relative Natural Colour (NC)
lab*lrj 0.847 0.209 -0.136
lab*tce 0.875 0.25 0.908
lab*nce 0.0 0.25 b63c

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 90.36 -11.5 96.15
LAB*LABa 90.36 -10.25 91.73
LAB*LABb 50.0 92.3 96.38
relative CIELAB lab*
lab*lab 0.935 -0.11 0.994
lab*tch 0.5 1.0 0.268
lab*nch 0.0 1.0 0.268
relative Natural Colour (NC)
lab*lrj 0.935 -0.04 0.999
lab*tce 0.5 1.0 0.256
lab*nce 0.0 1.0 j028

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 91.62 -8.61 73.31
LAB*LABa 91.62 -7.69 68.8
LAB*LABb 50.0 92.3 96.38
relative CIELAB lab*
lab*lab 0.951 0.082 0.745
lab*tch 0.625 0.75 0.268
lab*nch 0.0 0.75 0.268
relative Natural Colour (NC)
lab*lrj 0.951 0.029 0.749
lab*tce 0.625 0.75 0.256
lab*nce 0.0 0.75 j028

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 92.88 -5.12 58.7
LAB*LABa 92.88 -5.12 58.7
LAB*LABb 50.0 92.3 96.38
relative CIELAB lab*
lab*lab 0.967 0.055 0.497
lab*tch 0.75 0.5 0.268
lab*nch 0.0 0.5 0.268
relative Natural Colour (NC)
lab*lrj 0.967 0.019 0.499
lab*tce 0.75 0.5 0.256
lab*nce 0.0 0.5 j028

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 94.14 -3.52 27.6
LAB*LABa 94.14 -2.56 22.93
LAB*LABb 50.0 92.3 96.38
relative CIELAB lab*
lab*lab 0.984 0.027 0.248
lab*tch 0.875 0.25 0.268
lab*nch 0.0 0.25 0.268
relative Natural Colour (NC)
lab*lrj 0.984 0.009 0.25
lab*tce 0.875 0.25 0.256
lab*nce 0.0 0.25 j028

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 -0.98 4.75
LAB*LABa 95.41 0.0 -
LAB*LABb 50.0 92.3 96.38
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)

LE390-7, 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. LE39; Offset reflective system (ORS)
125 colours in CIELAB and three relative device systems (DS)

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