

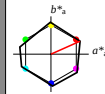
Input: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 24/360 = 0.067$ lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 53 84 24

olw*Ma: 1.0 0.0 0.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 119$

%Regularity

 $g^*_{H,rel} = 47$ $g^*_{C,rel} = 100$

relative Inform. Technology (IT)
 $olw^*3^* = 1.0$ 1.0 1.0 (1.0)
 $cmyn^*3^* = 0.0$ 0.0 0.0 (0.0)
 $olw^*4^* = 1.0$ 1.0 1.0 (1.0)
 $cmyn^*4^* = 0.0$ 0.0 0.0 (0.0)

standard and adapted CIELAB
 $LAB^*LAB = 95.41$ 0.0 -0.01
 $LAB^*LAB_0 = 95.41$ 0.0 0.0
 $LAB^*TCH_0 = 39.99$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 1.0$ 0.5 0.0 (1.0)
 $lab^*tch = 1.0$ 0.0 - (0.0)
 $lab^*nch = 0.0$ 0.0 - (0.0)

relative Natural Colour (NC)
 $lab^*lrj = 1.0$ 0.0 0.0 (1.0)
 $lab^*tce = 1.0$ 0.0 0.0 (1.0)
 $lab^*nce = 0.0$ 0.0 - (0.0)

relative Inform. Technology (IT)
 $olw^*3^* = 0.5$ 0.5 0.5 (1.0)
 $cmyn^*3^* = 0.5$ 0.5 0.5 (0.0)
 $olw^*4^* = 1.0$ 1.0 1.0 (0.5)
 $cmyn^*4^* = 0.0$ 0.0 0.0 (0.5)

standard and adapted CIELAB
 $LAB^*LAB = 53.21$ 0.04 0.0
 $LAB^*LAB_0 = 53.21$ 0.0 0.0
 $LAB^*TCH_0 = 50.0$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.5$ 0.0 0.0 (1.0)
 $lab^*tch = 0.5$ 0.0 - (0.0)
 $lab^*nch = 0.0$ 0.0 - (0.0)

relative Natural Colour (NC)
 $lab^*lrj = 0.5$ 0.0 0.0 (1.0)
 $lab^*tce = 0.5$ 0.0 0.0 (1.0)
 $lab^*nce = 0.0$ 0.0 - (0.0)

relative Inform. Technology (IT)
 $olw^*3^* = 0.0$ 0.0 0.0 (1.0)
 $cmyn^*3^* = 1.0$ 1.0 1.0 (0.0)
 $olw^*4^* = 1.0$ 1.0 1.0 (0.0)
 $cmyn^*4^* = 0.0$ 0.0 0.0 (1.0)

standard and adapted CIELAB
 $LAB^*LAB = 11.01$ 0.07 0.01
 $LAB^*LAB_0 = 11.01$ 0.0 0.0
 $LAB^*TCH_0 = 0.01$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.0$ 0.0 0.0 (1.0)
 $lab^*tch = 0.0$ 0.0 - (0.0)
 $lab^*nch = 1.0$ 0.0 - (0.0)

relative Natural Colour (NC)
 $lab^*lrj = 0.0$ 0.0 0.0 (1.0)
 $lab^*tce = 0.0$ 0.0 - (0.0)
 $lab^*nce = 1.0$ 0.0 - (0.0)

 $n^* = 1.0$

relative Inform. Technology (IT)
 $olw^*3^* = 1.0$ 0.5 0.5 (1.0)
 $cmyn^*3^* = 0.0$ 0.5 0.5 (0.0)
 $olw^*4^* = 1.0$ 0.5 0.5 (0.0)
 $cmyn^*4^* = 0.0$ 0.5 0.5 (0.0)

standard and adapted CIELAB
 $LAB^*LAB = 74.3$ 38.55 17.16
 $LAB^*LAB_0 = 74.3$ 38.55 17.16
 $LAB^*TCH_0 = 75.0$ 42.17 24.01

relative CIELAB lab*
 $lab^*lab = 0.75$ 0.457 0.203
 $lab^*tch = 0.75$ 0.5 0.067
 $lab^*nch = 0.0$ 0.5 0.067

relative Natural Colour (NC)
 $lab^*lrj = 0.75$ 0.5 -0.009
 $lab^*tce = 0.75$ 0.5 0.997
 $lab^*nce = 0.0$ 0.5 0.998

relative Inform. Technology (IT)
 $olw^*3^* = 0.5$ 0.0 0.0 (1.0)
 $cmyn^*3^* = 0.5$ 1.0 1.0 (0.0)
 $olw^*4^* = 1.0$ 0.5 0.5 (0.5)
 $cmyn^*4^* = 0.0$ 0.5 0.5 (0.5)

standard and adapted CIELAB
 $LAB^*LAB = 32.1$ 38.58 17.17
 $LAB^*LAB_0 = 32.1$ 38.52 17.16
 $LAB^*TCH_0 = 25.01$ 42.17 24.01

relative CIELAB lab*
 $lab^*lab = 0.25$ 0.457 0.203
 $lab^*tch = 0.25$ 0.5 0.067
 $lab^*nch = 0.5$ 1.0 0.067

relative Natural Colour (NC)
 $lab^*lrj = 0.25$ 0.5 -0.009
 $lab^*tce = 0.25$ 0.5 0.997
 $lab^*nce = 0.5$ 1.0 0.998

relative Inform. Technology (IT)
 $olw^*3^* = 0.0$ 0.0 0.0 (1.0)
 $cmyn^*3^* = 1.0$ 1.0 1.0 (0.0)
 $olw^*4^* = 1.0$ 1.0 1.0 (0.0)
 $cmyn^*4^* = 0.0$ 0.0 0.0 (1.0)

standard and adapted CIELAB
 $LAB^*LAB = 11.01$ 0.07 0.01
 $LAB^*LAB_0 = 11.01$ 0.0 0.0
 $LAB^*TCH_0 = 0.01$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.0$ 0.0 0.0 (1.0)
 $lab^*tch = 0.0$ 0.0 - (0.0)
 $lab^*nch = 1.0$ 0.0 - (0.0)

 $n^* = 1.0$

NRS11; adapted (a) CIELAB data					
$L^* = L_a$	a^*	b^*	C^*_{ab}	h^*_{ab}	
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.34	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
ICIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

 $n^* = 0.00$ blackness n^* chromaticness c^*

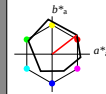
Output: Colorimetric Reflective System ORS18

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

D65: hue O

LCH*Ma: 48 83 38

olw*Ma: 1.0 0.0 0.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 93$

%Regularity

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

relative Inform. Technology (IT)
 $olw^*3^* = 1.0$ 1.0 1.0 (1.0)
 $cmyn^*3^* = 0.0$ 0.0 0.0 (0.0)
 $olw^*4^* = 1.0$ 1.0 1.0 (1.0)
 $cmyn^*4^* = 0.0$ 0.0 0.0 (0.0)

standard and adapted CIELAB
 $LAB^*LAB = 95.41$ -0.97 4.75
 $LAB^*LAB_0 = 95.41$ 0.0 0.0
 $LAB^*TCH_0 = 99.99$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 1.0$ 0.0 0.0 (1.0)
 $lab^*tch = 1.0$ 0.0 - (0.0)
 $lab^*nch = 0.0$ 0.0 - (0.0)

relative Natural Colour (NC)
 $lab^*lrj = 1.0$ 0.0 0.0 (1.0)
 $lab^*tce = 1.0$ 0.0 0.0 (1.0)
 $lab^*nce = 0.0$ 0.0 - (0.0)

relative Inform. Technology (IT)
 $olw^*3^* = 0.5$ 0.5 0.5 (1.0)
 $cmyn^*3^* = 0.5$ 0.5 0.5 (0.0)
 $olw^*4^* = 1.0$ 1.0 1.0 (0.5)
 $cmyn^*4^* = 0.0$ 0.0 0.0 (0.5)

standard and adapted CIELAB
 $LAB^*LAB = 56.71$ -0.23 2.14
 $LAB^*LAB_0 = 56.71$ 0.0 0.0
 $LAB^*TCH_0 = 50.0$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.5$ 0.0 0.0 (1.0)
 $lab^*tch = 0.5$ 0.0 - (0.0)
 $lab^*nch = 0.0$ 0.0 - (0.0)

relative Natural Colour (NC)
 $lab^*lrj = 0.5$ 0.0 0.0 (1.0)
 $lab^*tce = 0.5$ 0.0 0.0 (1.0)
 $lab^*nce = 0.0$ 0.0 - (0.0)

relative Inform. Technology (IT)
 $olw^*3^* = 0.0$ 0.0 0.0 (1.0)
 $cmyn^*3^* = 1.0$ 1.0 1.0 (0.0)
 $olw^*4^* = 1.0$ 1.0 1.0 (0.0)
 $cmyn^*4^* = 0.0$ 0.0 0.0 (1.0)

standard and adapted CIELAB
 $LAB^*LAB = 18.02$ 0.5 -0.46
 $LAB^*LAB_0 = 18.02$ 0.0 0.0
 $LAB^*TCH_0 = 0.01$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.0$ 0.0 0.0 (1.0)
 $lab^*tch = 0.0$ 0.0 - (0.0)
 $lab^*nch = 1.0$ 0.0 - (0.0)

relative Natural Colour (NC)
 $lab^*lrj = 0.0$ 0.0 0.0 (1.0)
 $lab^*tce = 0.0$ 0.0 - (0.0)
 $lab^*nce = 1.0$ 0.0 - (0.0)

 $n^* = 1.0$

ORS18; adapted (a) CIELAB data

 $L^* = L_a$ a^* b^* C^*_{ab} h^*_{ab}

OMa 47.94 65.37 50.52 82.62 38

YMa 90.37 -10.27 91.77 92.84 96

LMa 50.9 -62.79 34.95 71.87 151

VMa 58.62 -30.35 -45.01 54.3 236

CMa 25.71 31.11 -44.42 54.24 305

MMa 48.13 75.27 -8.35 75.73 354

WMa 18.01 0.0 0.0 0.0 0

RCIE 39.92 58.66 26.98 64.56 25

ICIE 81.26 -2.17 67.76 67.79 92

GCIE 52.23 -42.26 11.75 43.87 164

BCIE 30.57 1.15 -46.84 46.87 271

relative Inform. Technology (IT)
 $olw^*3^* = 1.0$ 0.5 0.5 (1.0)
 $cmyn^*3^* = 0.0$ 0.5 0.5 (0.0)
 $olw^*4^* = 1.0$ 0.5 0.5 (0.0)
 $cmyn^*4^* = 0.0$ 0.5 0.5 (0.0)

standard and adapted CIELAB
 $LAB^*LAB = 71.67$ 32.15 28.41
 $LAB^*LAB_0 = 71.67$ 32.15 28.41
 $LAB^*TCH_0 = 75.0$ 41.3 37.7

relative CIELAB lab*
 $lab^*lab = 0.693$ 0.396 0.306
 $lab^*tch = 0.75$ 0.5 0.105
 $lab^*nch = 0.0$ 0.5 0.105

relative Natural Colour (NC)
 $lab^*lrj = 0.693$ 0.477 0.15
 $lab^*tce = 0.75$ 0.5 0.048
 $lab^*nce = 0.0$ 0.5 0.191

relative Inform. Technology (IT)
 $olw^*3^* = 0.5$ 0.0 0.0 (1.0)
 $cmyn^*3^* = 0.5$ 1.0 1.0 (0.0)
 $olw^*4^* = 1.0$ 0.5 0.5 (0.5)
 $cmyn^*4^* = 0.0$ 0.5 0.5 (0.5)

standard and adapted CIELAB
 $LAB^*LAB = 32.98$ 32.9 25.8
 $LAB^*LAB_0 = 32.98$ 32.68 25.25
 $LAB^*TCH_0 = 25.01$ 41.3 37.7

relative CIELAB lab*
 $lab^*lab = 0.193$ 0.396 0.306
 $lab^*tch = 0.25$ 0.5 0.105
 $lab^*nch = 0.5$ 1.0 0.105

relative Natural Colour (NC)
 $lab^*lrj = 0.193$ 0.477 0.15
 $lab^*tce = 0.25$ 0.5 0.048
 $lab^*nce = 0.5$ 1.0 0.191

relative Inform. Technology (IT)
 $olw^*3^* = 0.0$ 0.0 0.0 (1.0)
 $cmyn^*3^* = 1.0$ 1.0 1.0 (0.0)
 $olw^*4^* = 1.0$ 1.0 1.0 (0.0)
 $cmyn^*4^* = 0.0$ 0.0 0.0 (1.0)

standard and adapted CIELAB
 $LAB^*LAB = 11.01$ 0.07 0.01
 $LAB^*LAB_0 = 11.01$ 0.0 0.0
 $LAB^*TCH_0 = 0.01$ 0.01 -

relative CIELAB lab*
 $lab^*lab = 0.0$ 0.0 0.0 (1.0)
 $lab^*tch = 0.0$ 0.0 - (0.0)
 $lab^*nch = 1.0$ 0.0 - (0.0)

 $n^* = 1.0$

relative Inform. Technology (IT)
 $olw^*3^* = 1.0$ 0.0 0.0 (1.0)
 $cmyn^*3^* = 0.0$ 1.0 1.0 (0.0)
 $olw^*4^* = 1.0$ 0.0 0.0 (0.5)
 $cmyn^*4^* = 0.0$ 1.0 1.0 (0.5)

standard and adapted CIELAB
 $LAB^*LAB = 47.95$ 65.29 52.06
 $LAB^*LAB_0 = 47.95$ 65.36 50.51
 $LAB^*TCH_0 = 50.0$ 82.6 37.7

relative CIELAB lab*
 $lab^*lab = 0.387$ 0.791 0.611
 $lab^*tch = 0.387$ 0.954 0.299
 $lab^*nch = 0.0$ 1.0 0.105

relative Natural Colour (NC)
 $lab^*lrj = 0.387$ 0.954 0.299
 $lab^*tce = 0.387$ 1.0 0.048
 $lab^*nce = 0.0$ 1.0 0.191

relative Inform. Technology (IT)
 $olw^*3^* = 0.5$ 0.0 0.0 (1.0)
 $cmyn^*3^* = 0.5$ 1.0 1.0 (0.0)
 $olw^*4^* = 1.0$ 0.5 0.5 (0.5)
 $cmyn^*4^* = 0.0$ 0.5 0.5 (0.5)

standard and adapted CIELAB
 $LAB^*LAB = 32.98$ 32.9 25.8
 $LAB^*LAB_0 = 32.98$ 32.68 25.25
 $LAB^*TCH_0 = 25.01$ 41.3 37.7

relative CIELAB lab*
 $lab^*lab = 0.193$ 0.396 0.306
 $lab^*tch = 0.25$ 0.5 0.105
 $lab^*nch = 0.5$ 1.0 0.105

relative Natural Colour (NC)
 $lab^*lrj = 0.193$ 0.477 0.15
 $lab^*tce = 0.25$ 0.5 0.048
 $lab^*nce = 0.5$ 1.0 0.191

relative Inform. Technology (IT)
 $olw^*3^* = 0.0$ 0.0 0.0 (1.0)
 $cmyn^*3^* = 1.0$ 1.0 1.0 (0.0)
 $olw^*4^* = 1.0$ 1.0 1.0 (0.0)
 $cmyn^*4^* = 0.0$ 0.0 0.0 (1.0)

standard and adapted CIELAB
 $LAB^*LAB = 11.01$ 0.07 0.01
 $LAB^*LAB_0 = 11.01$ 0.0 0.0
 $LAB^*TCH_0 = 0.01$ 0.01 -

 $n^* = 1.0$