BAM registration: 20060101-UE71/L71E00N1.PS/.TXT

application for evaluation and measurement of printer or monitor systems

BAM material: code=rha4ta

See for similar files: http://www.ps.bam.de/UE71/
Technical information: http://www.ps.bam.de   Version 2.1, io=0,0
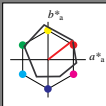
UE71/ Print: 1/0, Scale: 1/1, Page 1   Page: count 1

Input: 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
rgb*Ma: 1.0 0.0 0.0
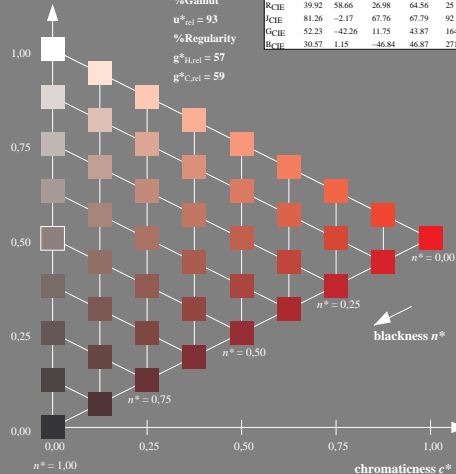
ORS18; adapted (a) CIELAB data

	L*=L*a	a*a	b*a	C*ab,a	h*ab,a
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	−10.27	91.77	92.34	96
LMa	50.9	−62.79	34.95	71.87	151
CMa	58.62	−30.35	−45.01	54.3	236
VMa	25.71	31.11	−44.42	54.24	305
MMa	48.13	75.27	−8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	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

%Gamut
u*rel = 93
%Regularity
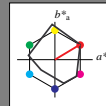g*H,rel = 57
g*C,rel = 59

triangle lightness t*

b*a
a*a

Output: Colorimetric Reflective System MRS18a

for hue h* = lab*h = 31/360 = 0.086
*lab*tch* and *lab*nch*
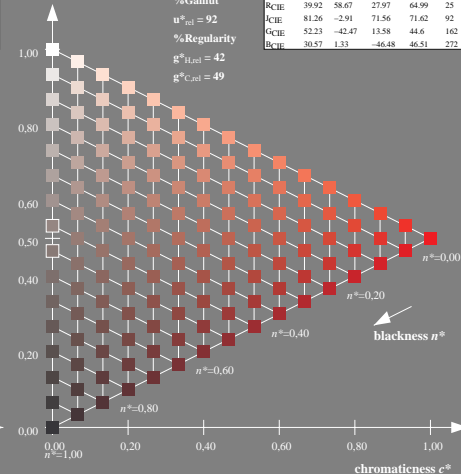
D65: hue R
LCH*Ma: 50 78 31
rgb*Ma: 1.0 0.0 0.0

MRS18a; adapted (a) CIELAB data

	L*=L*a	a*a	b*a	C*ab,a	h*ab,a
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	−7.27	93.19	93.48	94
GMa	52.11	−69.93	11.26	70.85	171
G50BMa	45.03	−36.65	−27.13	45.61	217
BMa	36.65	23.26	−62.27	66.49	290
B50RMa	34.94	57.27	−43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	−2.91	71.56	71.62	92
GCIE	52.23	−42.47	13.58	44.6	162
BCIE	30.57	1.33	−46.48	46.51	272

%Gamut
u*rel = 92
%Regularity
g*H,rel = 42
g*C,rel = 49

triangle lightness t*

b*a
a*a

1,00
0,75
0,50
0,25
0,00

n* = 0,00
n* = 0,25
n* = 0,50
n* = 0,75
n* = 1,00

blackness n*

0,00   0,25   0,50   0,75   1,00
chromaticness c*

1,00
0,60
0,40

n*=0,00
n*=0,20
n*=0,40
n*=0,60
n*=0,80
n*=1,00

blackness n*

0,00   0,20   0,40   0,60   0,80   1,00
chromaticness c*

UE710−7, 9 step scales for constant CIELAB hue 38/360 = 0.105 (left)   16 step scales for constant CIELAB hue 31/360 = 0.086 (right)

BAM-test chart UE71; Colorimetric systems ORS18 & MRS18a input: *cmy0* setcmykcolor*
D65: 9 and 16 step colour scales for 10 hues   output: *no change compared to input*