

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 24/360 = 0.066$

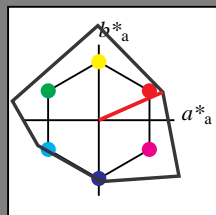
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

NCS11; adapted (a) CIELAB data

| | $L^*=L^*_a$ | a^*_a | b^*_a | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa | 47.15 | 84.64 | 37.25 | 92.48 | 24 |
| JMa | 91.37 | -1.27 | 125.03 | 125.03 | 91 |
| GMa | 63.07 | -114.28 | 25.35 | 117.06 | 167 |
| G50BMa | 59.47 | -80.6 | -33.45 | 87.28 | 203 |
| BMa | 49.01 | 3.65 | -81.19 | 81.28 | 273 |
| B50RMa | 44.06 | 106.09 | -73.93 | 129.32 | 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 |
| JCIE | 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 |

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 24/360 = 0.066$

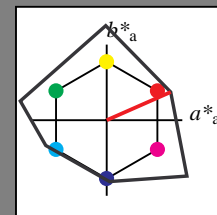
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 149$

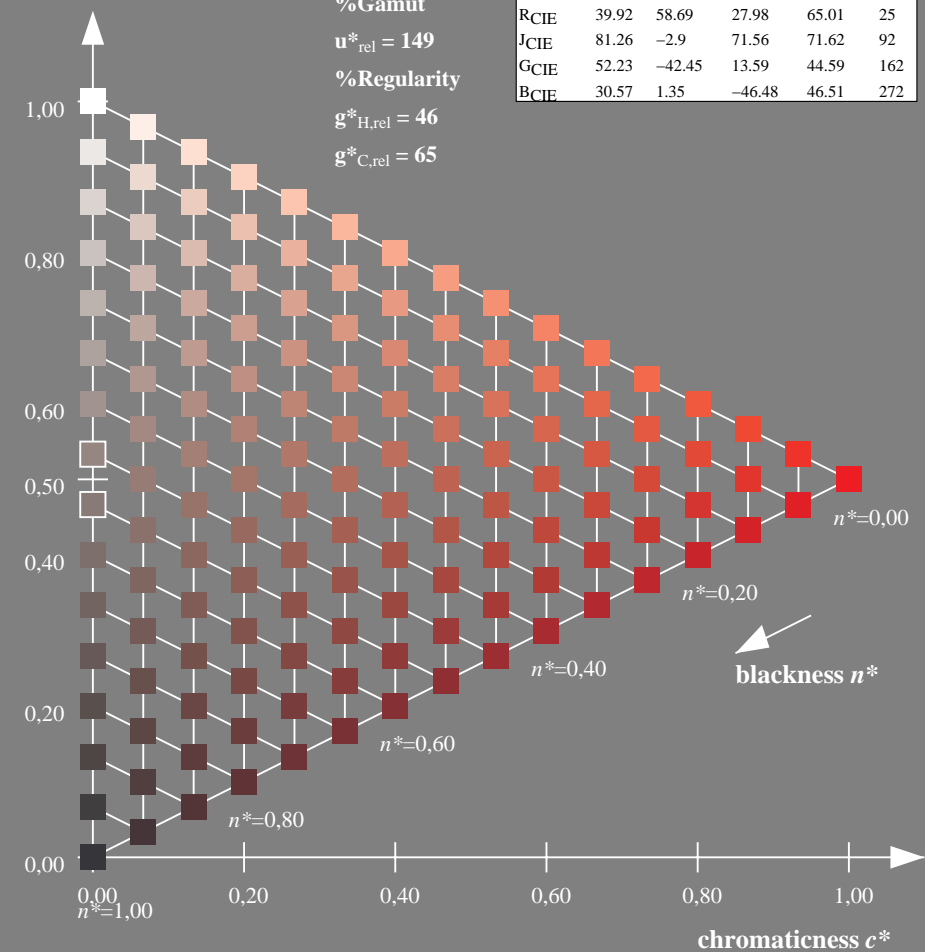
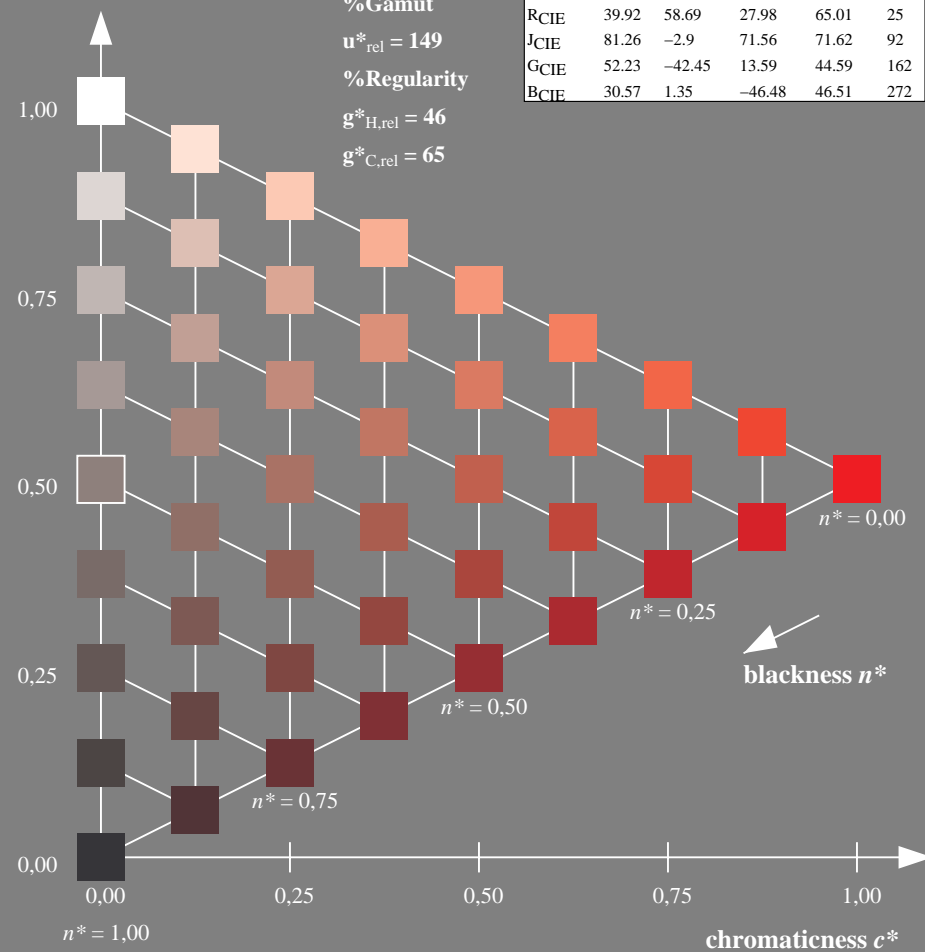
%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

NCS11; adapted (a) CIELAB data

| | $L^*=L^*_a$ | a^*_a | b^*_a | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa | 47.15 | 84.64 | 37.25 | 92.48 | 24 |
| JMa | 91.37 | -1.27 | 125.03 | 125.03 | 91 |
| GMa | 63.07 | -114.28 | 25.35 | 117.06 | 167 |
| G50BMa | 59.47 | -80.6 | -33.45 | 87.28 | 203 |
| BMa | 49.01 | 3.65 | -81.19 | 81.28 | 273 |
| B50RMa | 44.06 | 106.09 | -73.93 | 129.32 | 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 |
| JCIE | 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 |



UE790-7, 9 step scales for constant CIELAB hue 24/360 = 0.066 (left)

16 step scales for constant CIELAB hue 24/360 = 0.066 (right)

BAM-test chart UE79; Colorimetric systems NCS11a & NCS11ainput: *cmY0* setcmykcolor*

D65: 9 and 16 step colour scales for 10 hues

output: *no change compared to input*

See for similar files: <http://www.ps.bam.de/UE79/>
 Technical information: <http://www.ps.bam.de>
 Version 2.1, io=0,0

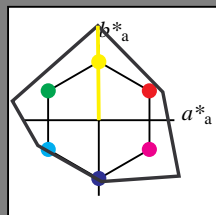
BAM registration: 20060101-UE79/10Q/Q79E00NP.PS/.PDF BAM material: code=rhadata
 application for evaluation and measurement of printer or monitor systems
 /UE79/ Form: 1/10, Serie: 1/1, Page: 1 Page count: 1

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 91/360 = 0.252$
 lab^*tch and lab^*nch

D65: hue J
 LCH*Ma: 91 125 91
 rgb*Ma: 1.0 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

NCS11; adapted (a) CIELAB data

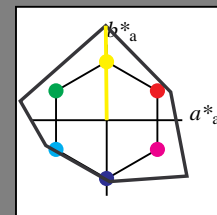
| | $L^*=L^*_a$ | a^*_a | b^*_a | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa | 47.15 | 84.64 | 37.25 | 92.48 | 24 |
| JMa | 91.37 | -1.27 | 125.03 | 125.03 | 91 |
| GMa | 63.07 | -114.28 | 25.35 | 117.06 | 167 |
| G50BMa | 59.47 | -80.6 | -33.45 | 87.28 | 203 |
| BMa | 49.01 | 3.65 | -81.19 | 81.28 | 273 |
| B50RMa | 44.06 | 106.09 | -73.93 | 129.32 | 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 |
| JCIE | 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 |

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 91/360 = 0.252$
 lab^*tch and lab^*nch

D65: hue J
 LCH*Ma: 91 125 91
 rgb*Ma: 1.0 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 149$

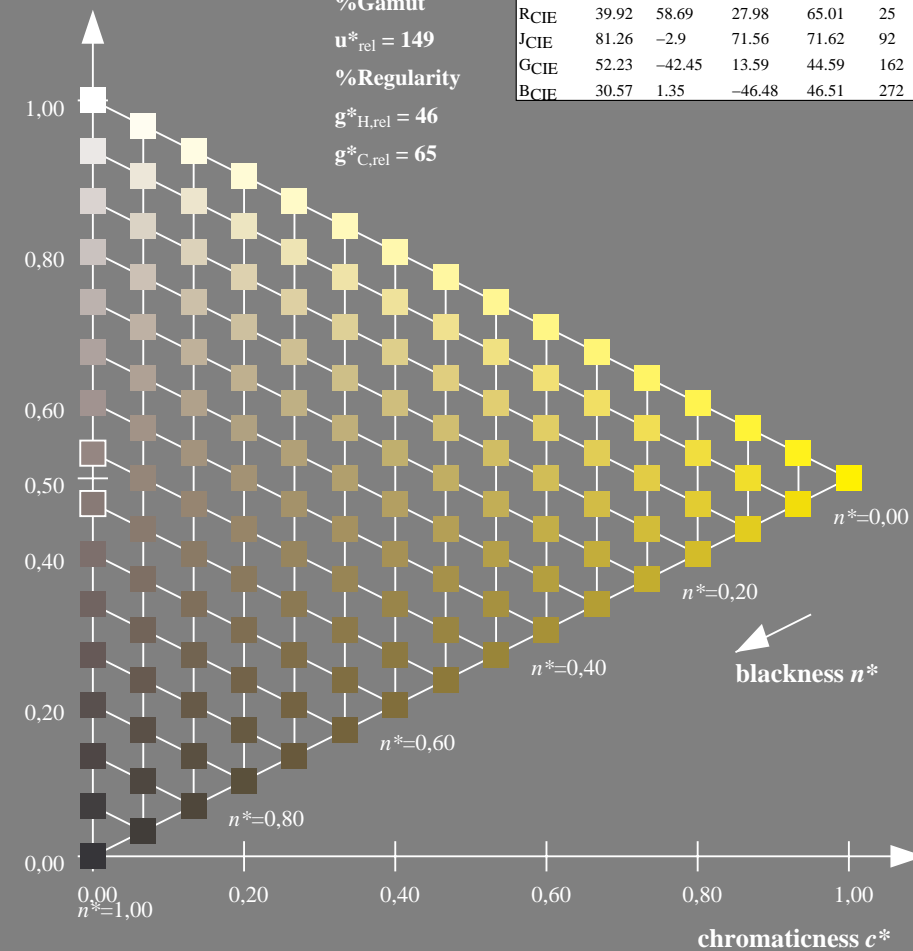
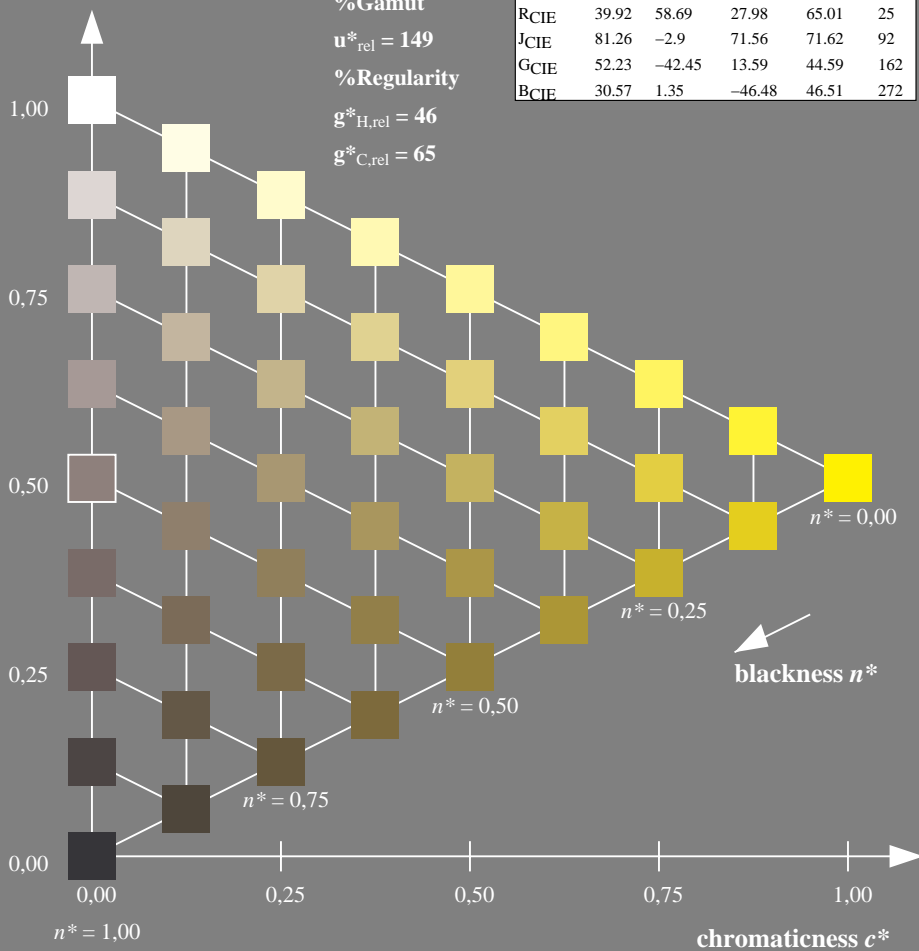
%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

NCS11; adapted (a) CIELAB data

| | $L^*=L^*_a$ | a^*_a | b^*_a | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa | 47.15 | 84.64 | 37.25 | 92.48 | 24 |
| JMa | 91.37 | -1.27 | 125.03 | 125.03 | 91 |
| GMa | 63.07 | -114.28 | 25.35 | 117.06 | 167 |
| G50BMa | 59.47 | -80.6 | -33.45 | 87.28 | 203 |
| BMa | 49.01 | 3.65 | -81.19 | 81.28 | 273 |
| B50RMa | 44.06 | 106.09 | -73.93 | 129.32 | 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 |
| JCIE | 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 |



UE790-7, 9 step scales for constant CIELAB hue 91/360 = 0.252 (left)

16 step scales for constant CIELAB hue 91/360 = 0.252 (right)

BAM-test chart UE79; Colorimetric systems NCS11a & NCS11ainput: *cmY0* setcmykcolor*

D65: 9 and 16 step colour scales for 10 hues

output: *no change compared to input*

See for similar files: <http://www.ps.bam.de/UE79/>
 Technical information: <http://www.ps.bam.de>
 Version 2.1, io=0,0

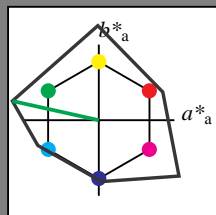
BAM registration: 20060101-UE79/10Q/Q79E01NP.PS/.PDF BAM material: code=rh4ta
 application for evaluation and measurement of printer or monitor systems
 /UE79/ Form: 2/10, Serie: 1/1, Page: 2 Page count: 2

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 167/360 = 0.465$
 lab^*tch and lab^*nch

D65: hue G
 LCH*Ma: 63 117 167
 rgb*Ma: 0.0 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

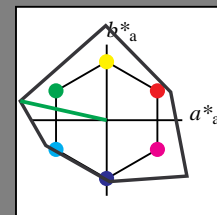
| NCS11; adapted (a) CIELAB data | | | | | |
|--------------------------------|---------------|---------|---------|--------------|--------------|
| | $L^* = L^*_a$ | a^*_a | b^*_a | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| RMa | 47.15 | 84.64 | 37.25 | 92.48 | 24 |
| JMa | 91.37 | -1.27 | 125.03 | 125.03 | 91 |
| GMa | 63.07 | -114.28 | 25.35 | 117.06 | 167 |
| G50BMa | 59.47 | -80.6 | -33.45 | 87.28 | 203 |
| BMa | 49.01 | 3.65 | -81.19 | 81.28 | 273 |
| B50RMa | 44.06 | 106.09 | -73.93 | 129.32 | 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 |
| JCIE | 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 |

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 167/360 = 0.465$
 lab^*tch and lab^*nch

D65: hue G
 LCH*Ma: 63 117 167
 rgb*Ma: 0.0 1.0 0.0

triangle lightness t^*



%Gamut

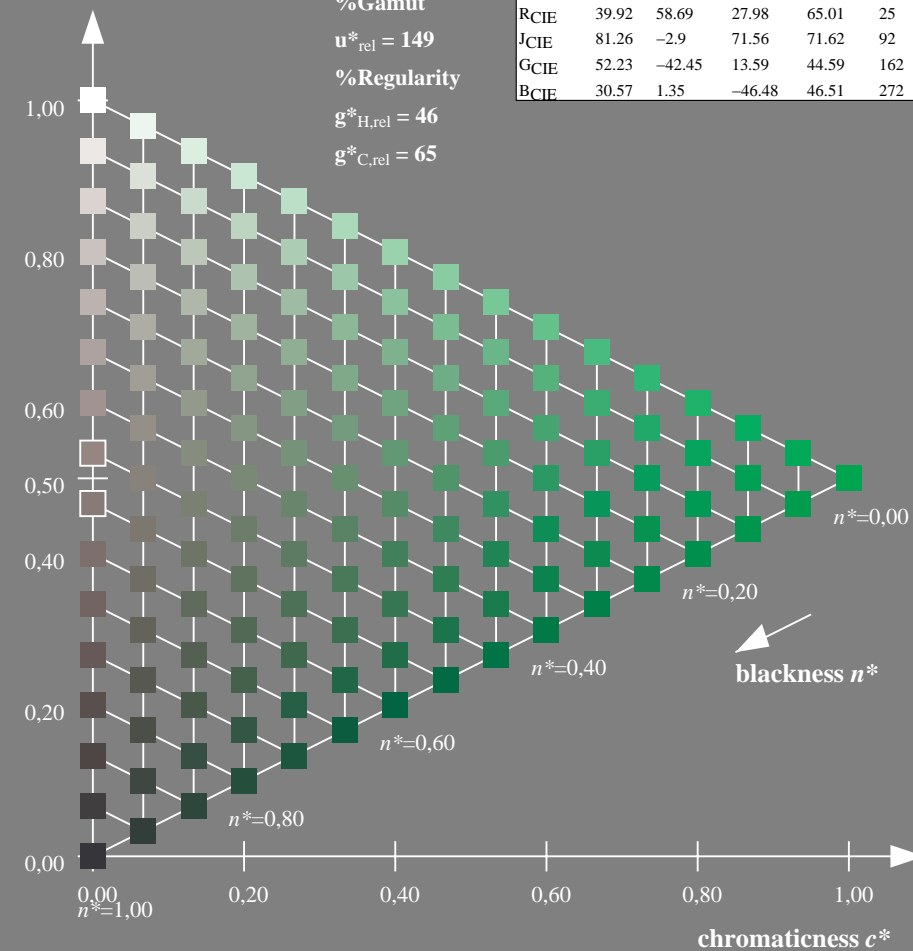
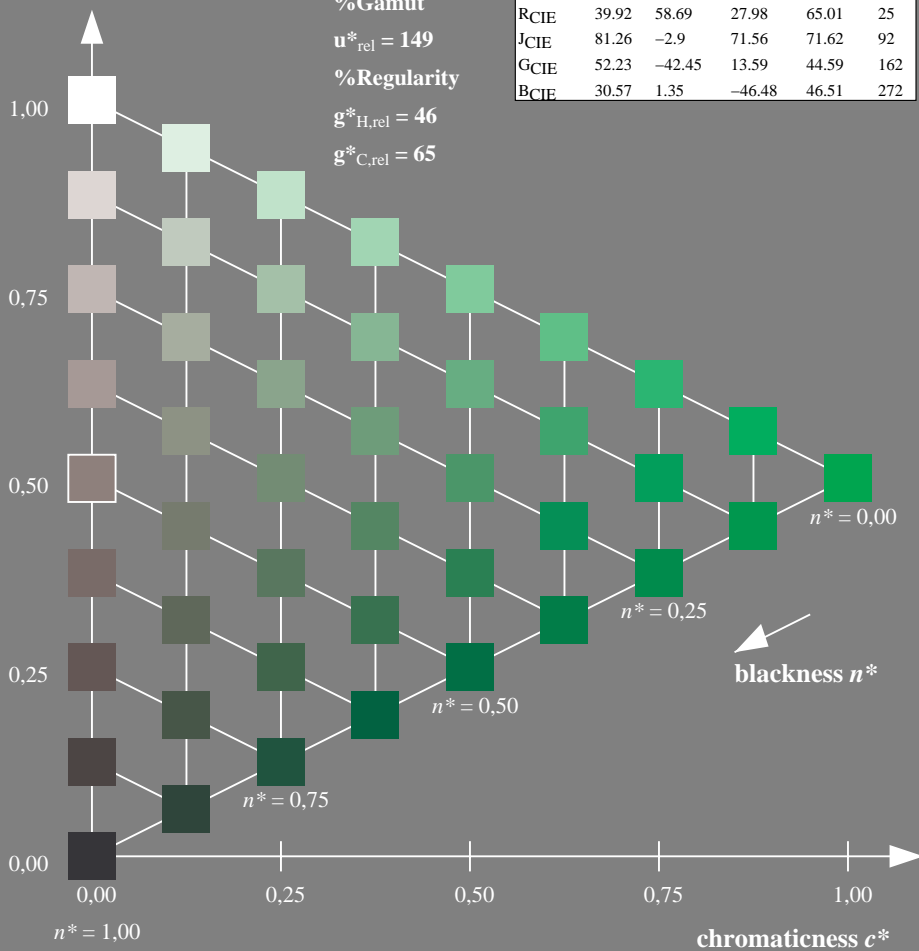
$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

| NCS11; adapted (a) CIELAB data | | | | | |
|--------------------------------|---------------|---------|---------|--------------|--------------|
| | $L^* = L^*_a$ | a^*_a | b^*_a | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| RMa | 47.15 | 84.64 | 37.25 | 92.48 | 24 |
| JMa | 91.37 | -1.27 | 125.03 | 125.03 | 91 |
| GMa | 63.07 | -114.28 | 25.35 | 117.06 | 167 |
| G50BMa | 59.47 | -80.6 | -33.45 | 87.28 | 203 |
| BMa | 49.01 | 3.65 | -81.19 | 81.28 | 273 |
| B50RMa | 44.06 | 106.09 | -73.93 | 129.32 | 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 |
| JCIE | 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 |



UE790-7, 9 step scales for constant CIELAB hue 167/360 = 0.465 (left)

16 step scales for constant CIELAB hue 167/360 = 0.465 (right)

BAM-test chart UE79; Colorimetric systems NCS11a & NCS11ainput: *cmY0* setcmykcolor*

D65: 9 and 16 step colour scales for 10 hues

output: *no change compared to input*

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 203/360 = 0.563$

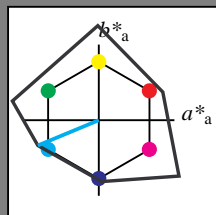
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

NCS11; adapted (a) CIELAB data

| | $L^*=L^*_a$ | a^*_a | b^*_a | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa | 47.15 | 84.64 | 37.25 | 92.48 | 24 |
| JMa | 91.37 | -1.27 | 125.03 | 125.03 | 91 |
| GMa | 63.07 | -114.28 | 25.35 | 117.06 | 167 |
| G50BMa | 59.47 | -80.6 | -33.45 | 87.28 | 203 |
| BMa | 49.01 | 3.65 | -81.19 | 81.28 | 273 |
| B50RMa | 44.06 | 106.09 | -73.93 | 129.32 | 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 |
| JCIE | 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 |

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 203/360 = 0.563$

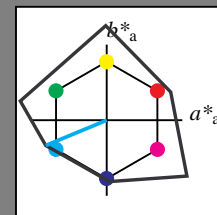
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 149$

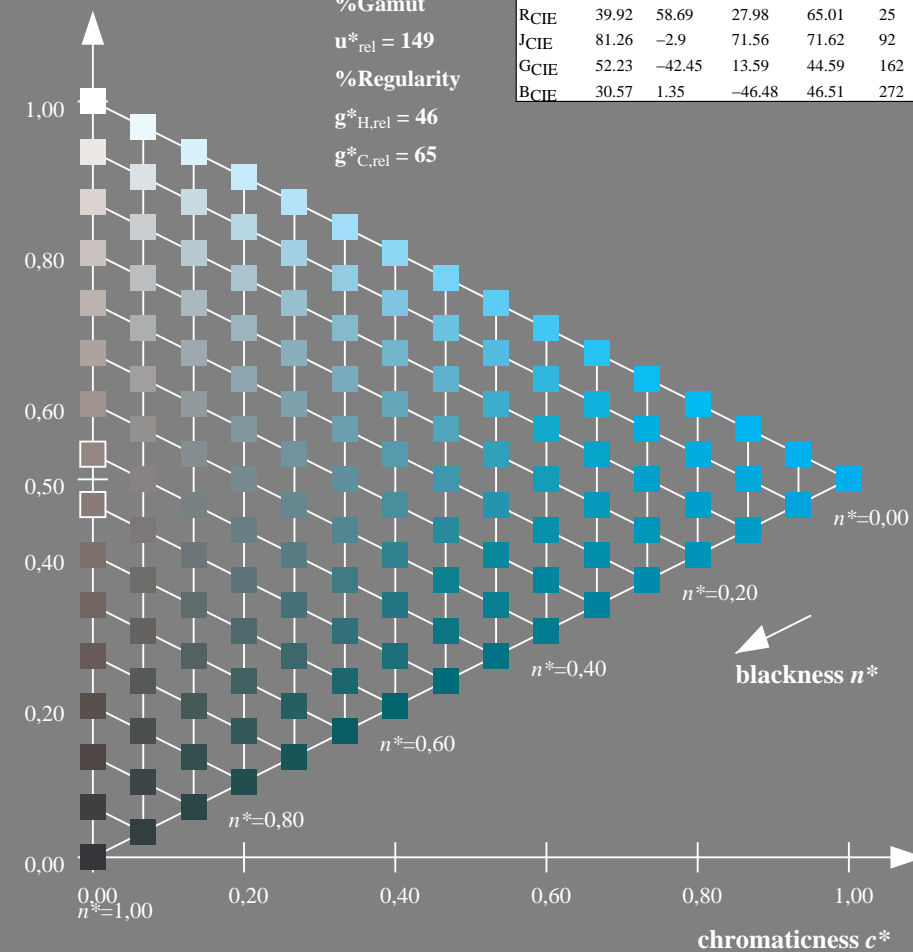
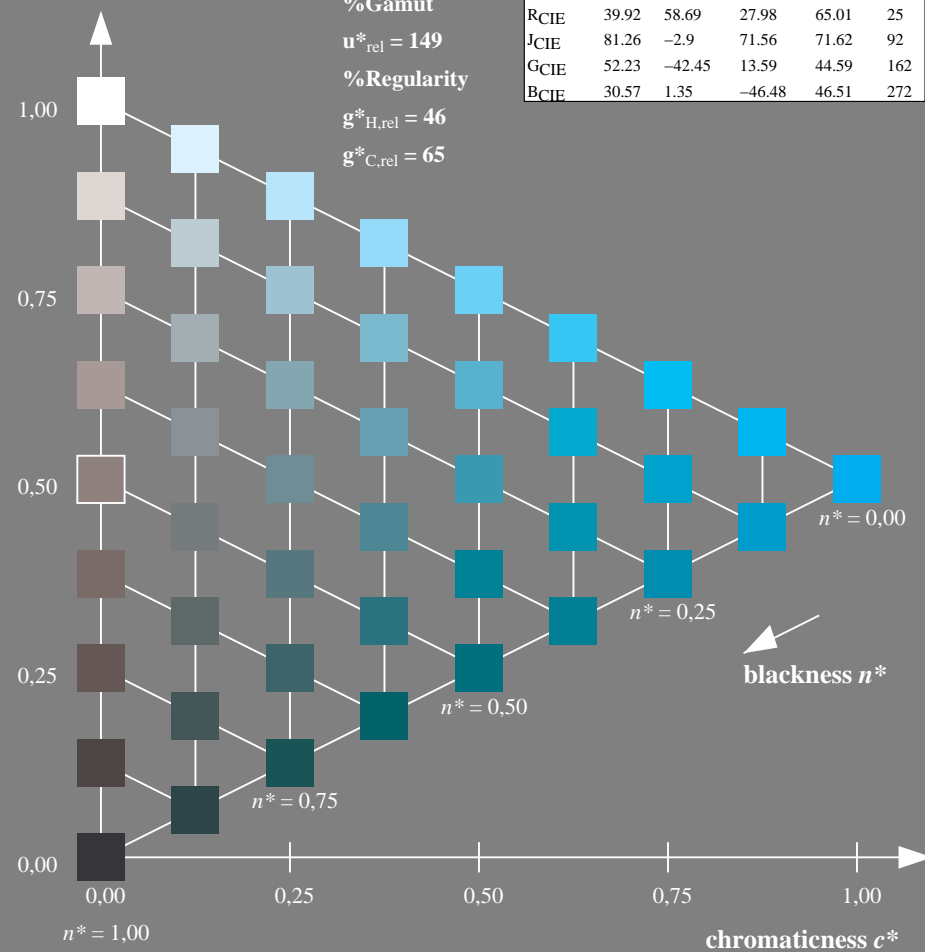
%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

NCS11; adapted (a) CIELAB data

| | $L^*=L^*_a$ | a^*_a | b^*_a | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa | 47.15 | 84.64 | 37.25 | 92.48 | 24 |
| JMa | 91.37 | -1.27 | 125.03 | 125.03 | 91 |
| GMa | 63.07 | -114.28 | 25.35 | 117.06 | 167 |
| G50BMa | 59.47 | -80.6 | -33.45 | 87.28 | 203 |
| BMa | 49.01 | 3.65 | -81.19 | 81.28 | 273 |
| B50RMa | 44.06 | 106.09 | -73.93 | 129.32 | 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 |
| JCIE | 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 |



UE790-7, 9 step scales for constant CIELAB hue 203/360 = 0.563 (left)

16 step scales for constant CIELAB hue 203/360 = 0.563 (right)

BAM-test chart UE79; Colorimetric systems NCS11a & NCS11ainput: *cmY0* setcmykcolor*

D65: 9 and 16 step colour scales for 10 hues

output: *no change compared to input*

See for similar files: <http://www.ps.bam.de/UE79/>
 Technical information: <http://www.ps.bam.de>
 Version 2.1, io=0,0

BAM registration: 20060101-UE79/10Q/Q79E03NP.PS/.PDF BAM material: code=rh4ta
 application for evaluation and measurement of printer or monitor systems
 /UE79/ Form: 4/10, Serie: 1/1, Page: 4 Page count: 4

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 273/360 = 0.757$

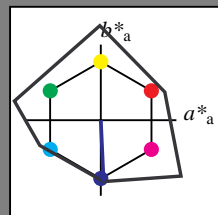
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

NCS11; adapted (a) CIELAB data

| | $L^* = L^*_a$ | a^*_a | b^*_a | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa | 47.15 | 84.64 | 37.25 | 92.48 | 24 |
| JMa | 91.37 | -1.27 | 125.03 | 125.03 | 91 |
| GMa | 63.07 | -114.28 | 25.35 | 117.06 | 167 |
| G50BMa | 59.47 | -80.6 | -33.45 | 87.28 | 203 |
| BMa | 49.01 | 3.65 | -81.19 | 81.28 | 273 |
| B50RMa | 44.06 | 106.09 | -73.93 | 129.32 | 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 |
| JCIE | 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 |

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 273/360 = 0.757$

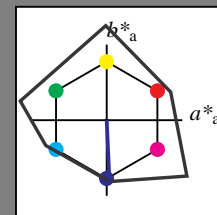
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 149$

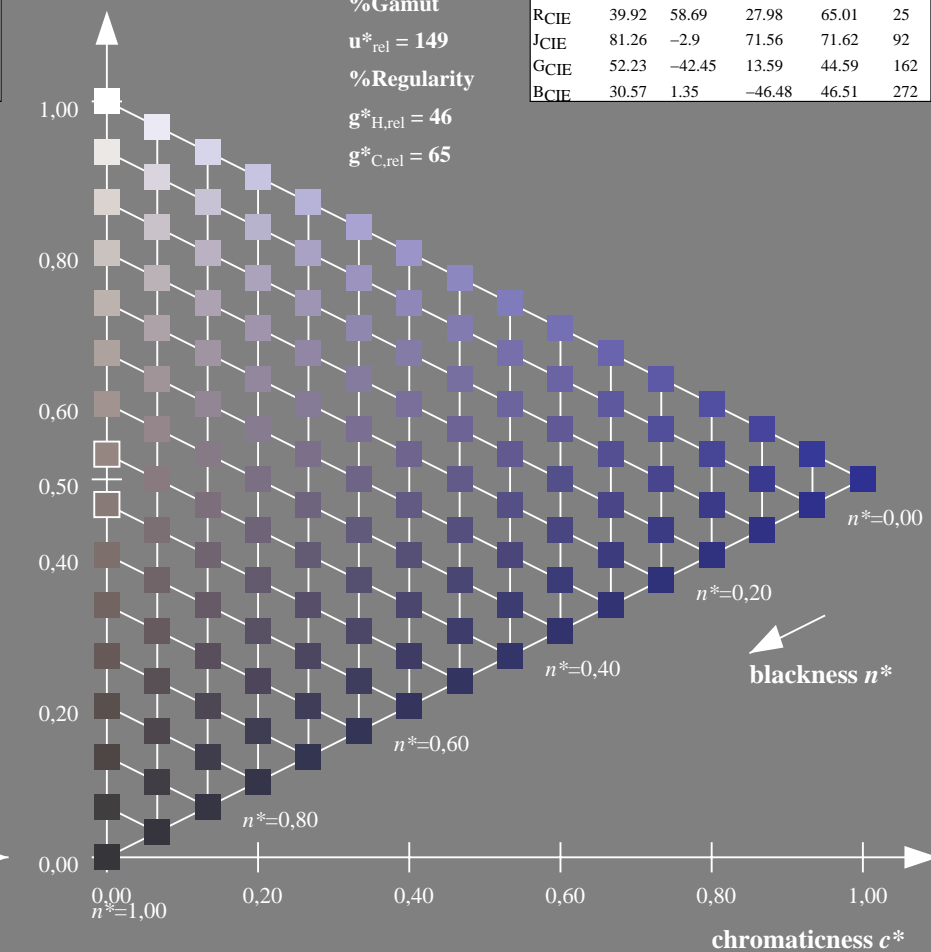
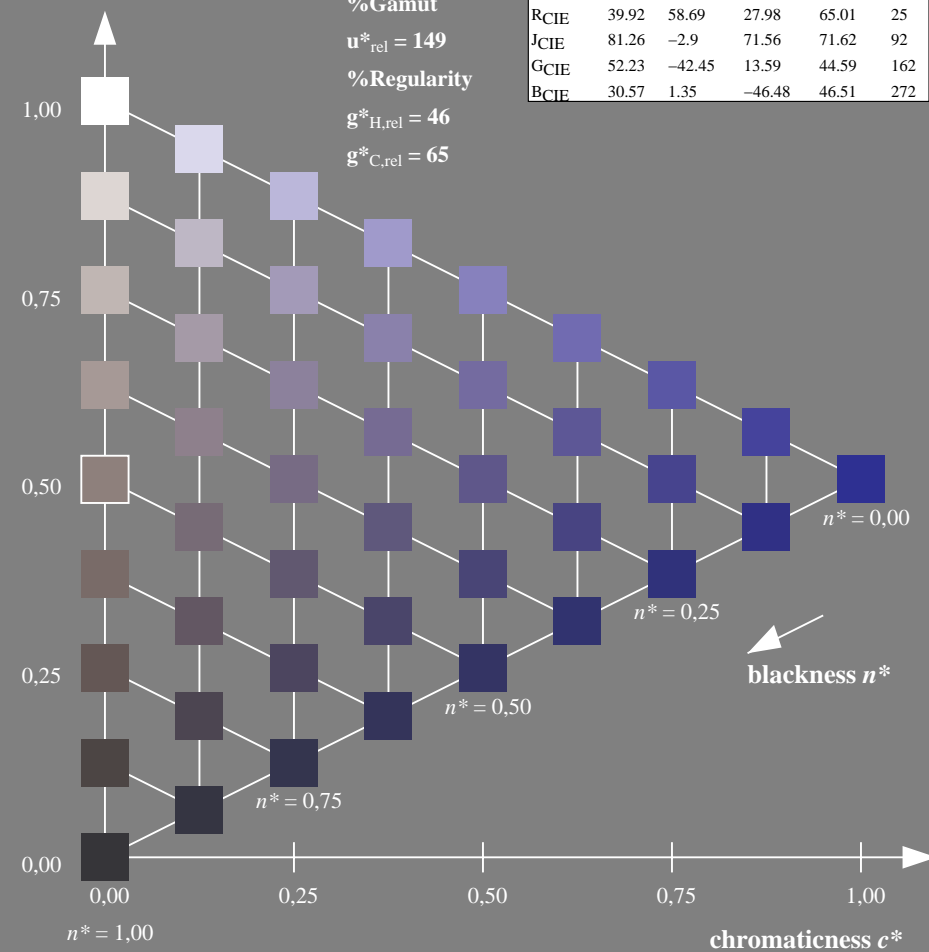
%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

NCS11; adapted (a) CIELAB data

| | $L^* = L^*_a$ | a^*_a | b^*_a | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa | 47.15 | 84.64 | 37.25 | 92.48 | 24 |
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| 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 |
| JCIE | 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 |



UE790-7, 9 step scales for constant CIELAB hue 273/360 = 0.757 (left)

16 step scales for constant CIELAB hue 273/360 = 0.757 (right)

BAM-test chart UE79; Colorimetric systems NCS11a & NCS11ainput: *cmY0* setcmykcolor*

D65: 9 and 16 step colour scales for 10 hues

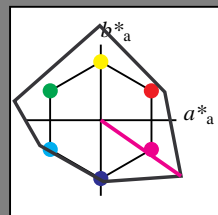
output: *no change compared to input*

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 325/360 = 0.903$
 lab^*tch and lab^*nch

D65: hue B50R
 LCH*Ma: 44 129 325
 rgb*Ma: 1.0 0.0 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

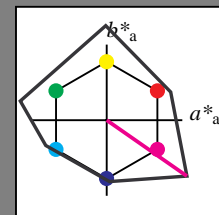
| NCS11; adapted (a) CIELAB data | | | | | |
|--------------------------------|-------------|---------|---------|--------------|--------------|
| | $L^*=L^*_a$ | a^*_a | b^*_a | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
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| JMa | 91.37 | -1.27 | 125.03 | 125.03 | 91 |
| GMa | 63.07 | -114.28 | 25.35 | 117.06 | 167 |
| G50BMa | 59.47 | -80.6 | -33.45 | 87.28 | 203 |
| BMa | 49.01 | 3.65 | -81.19 | 81.28 | 273 |
| B50RMa | 44.06 | 106.09 | -73.93 | 129.32 | 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 |
| JCIE | 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 |

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 325/360 = 0.903$
 lab^*tch and lab^*nch

D65: hue B50R
 LCH*Ma: 44 129 325
 rgb*Ma: 1.0 0.0 1.0

triangle lightness t^*



%Gamut

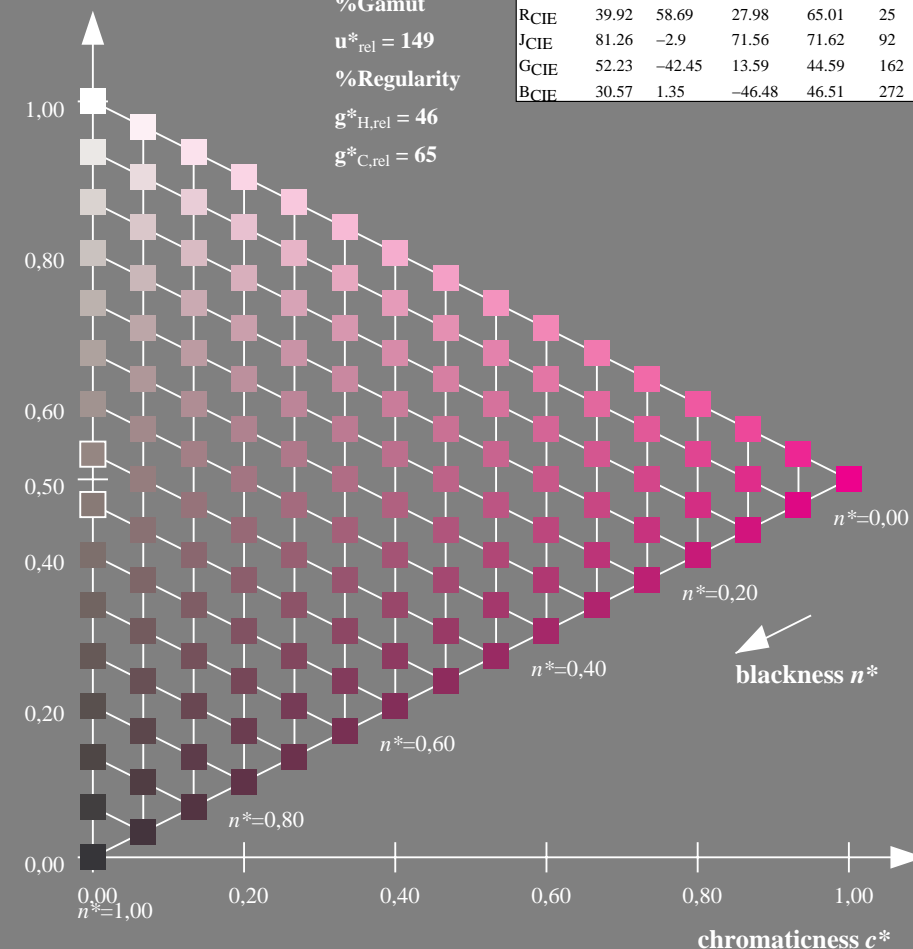
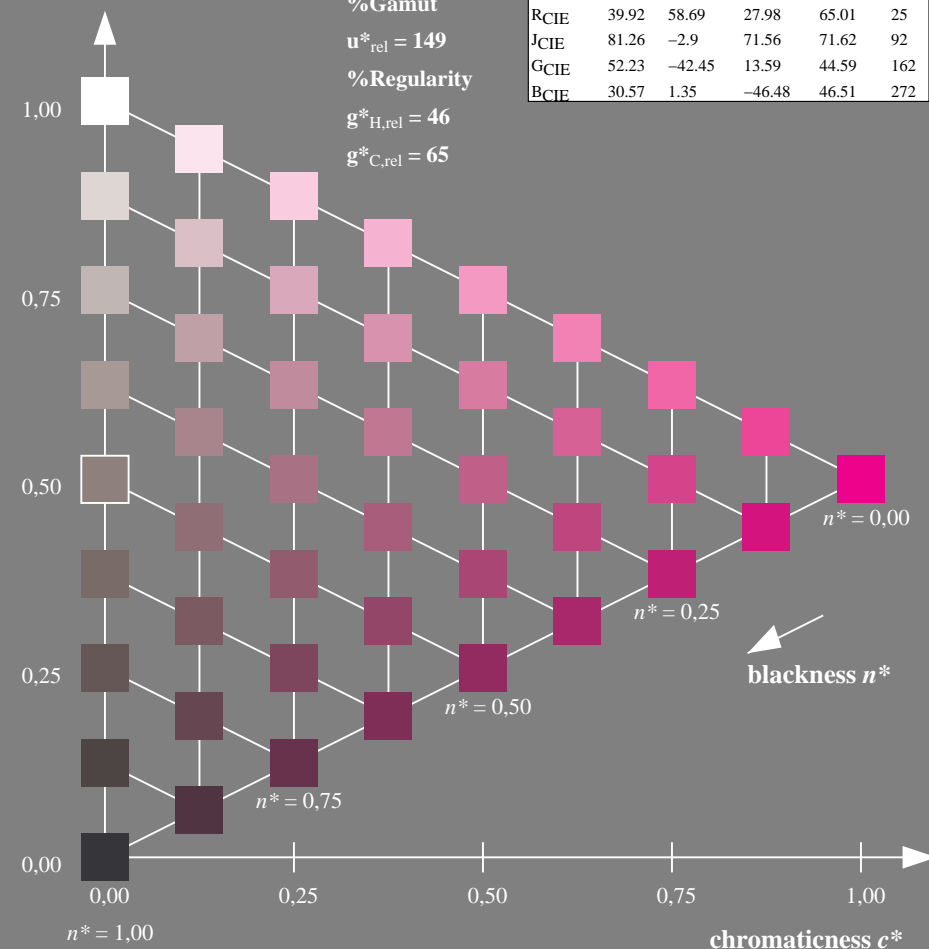
$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

| NCS11; adapted (a) CIELAB data | | | | | |
|--------------------------------|-------------|---------|---------|--------------|--------------|
| | $L^*=L^*_a$ | a^*_a | b^*_a | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| RMa | 47.15 | 84.64 | 37.25 | 92.48 | 24 |
| JMa | 91.37 | -1.27 | 125.03 | 125.03 | 91 |
| GMa | 63.07 | -114.28 | 25.35 | 117.06 | 167 |
| G50BMa | 59.47 | -80.6 | -33.45 | 87.28 | 203 |
| BMa | 49.01 | 3.65 | -81.19 | 81.28 | 273 |
| B50RMa | 44.06 | 106.09 | -73.93 | 129.32 | 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 |
| JCIE | 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 |



UE790-7, 9 step scales for constant CIELAB hue 325/360 = 0.903 (left)

16 step scales for constant CIELAB hue 325/360 = 0.903 (right)

BAM-test chart UE79; Colorimetric systems NCS11a & NCS11ainput: *cmY0* setcmykcolor*

D65: 9 and 16 step colour scales for 10 hues

output: *no change compared to input*

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 25/360 = 0.071$

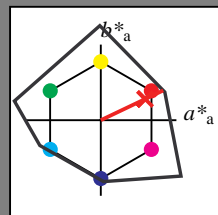
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

NCS11; adapted (a) CIELAB data

| | $L^*=L^*_a$ | a^*_a | b^*_a | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa | 47.15 | 84.64 | 37.25 | 92.48 | 24 |
| JMa | 91.37 | -1.27 | 125.03 | 125.03 | 91 |
| GMa | 63.07 | -114.28 | 25.35 | 117.06 | 167 |
| G50BMa | 59.47 | -80.6 | -33.45 | 87.28 | 203 |
| BMa | 49.01 | 3.65 | -81.19 | 81.28 | 273 |
| B50RMa | 44.06 | 106.09 | -73.93 | 129.32 | 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 |
| JCIE | 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 |

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 25/360 = 0.071$

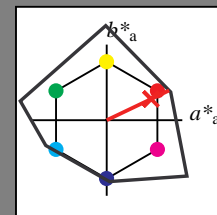
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 149$

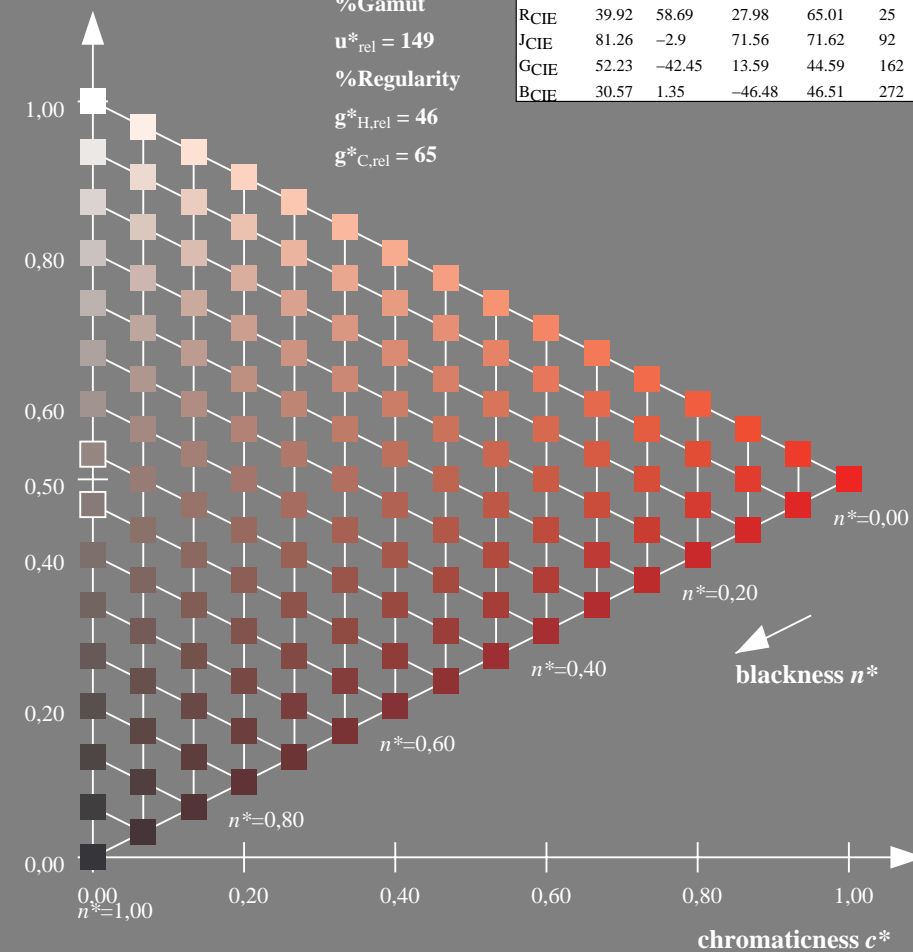
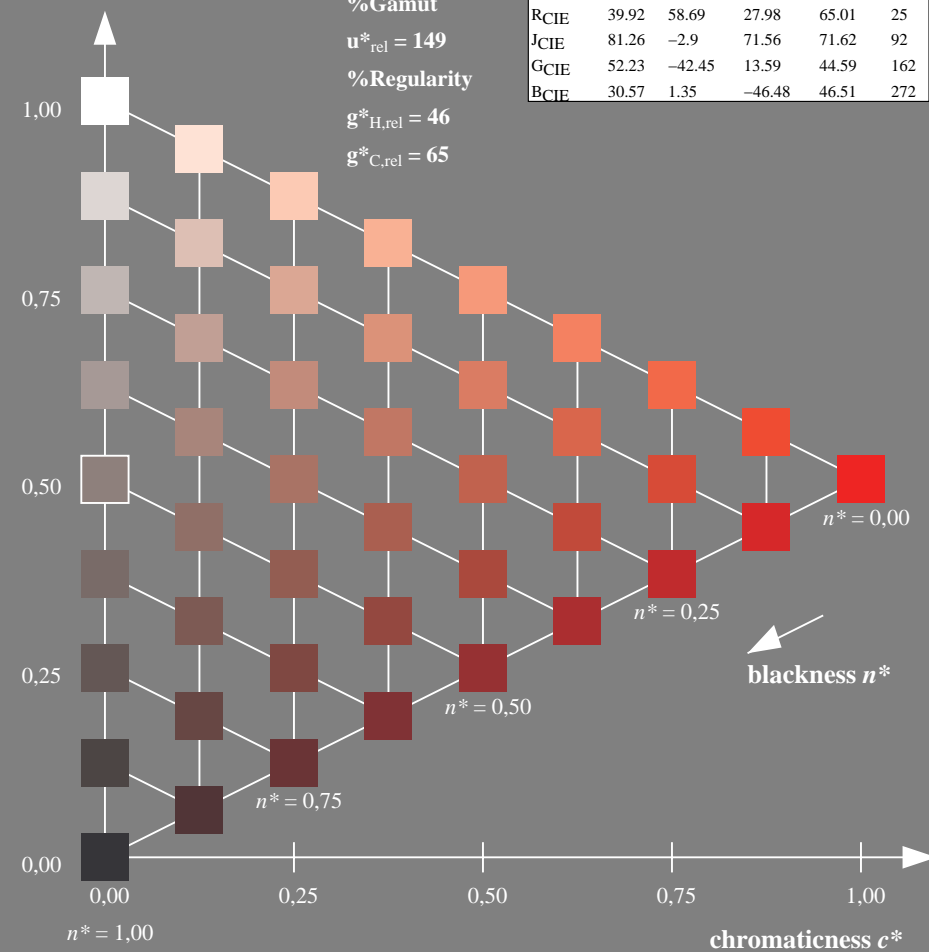
%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

NCS11; adapted (a) CIELAB data

| | $L^*=L^*_a$ | a^*_a | b^*_a | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa | 47.15 | 84.64 | 37.25 | 92.48 | 24 |
| JMa | 91.37 | -1.27 | 125.03 | 125.03 | 91 |
| GMa | 63.07 | -114.28 | 25.35 | 117.06 | 167 |
| G50BMa | 59.47 | -80.6 | -33.45 | 87.28 | 203 |
| BMa | 49.01 | 3.65 | -81.19 | 81.28 | 273 |
| B50RMa | 44.06 | 106.09 | -73.93 | 129.32 | 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 |
| JCIE | 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 |



UE790-7, 9 step scales for constant CIELAB hue 25/360 = 0.071 (left)

16 step scales for constant CIELAB hue 25/360 = 0.071 (right)

BAM-test chart UE79; Colorimetric systems NCS11a & NCS11ainput: *cmY0* setcmykcolor*

D65: 9 and 16 step colour scales for 10 hues

output: *no change compared to input*

See for similar files: <http://www.ps.bam.de/UE79/>
 Technical information: <http://www.ps.bam.de>
 Version 2.1, io=0,0

BAM registration: 20060101-UE79/10Q/Q79E06NP.PS/.PDF BAM material: code=rhadata
 application for evaluation and measurement of printer or monitor systems
 /UE79/ Form: 7/10, Serie: 1/1, Page: 7 Page count: 7

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 92/360 = 0.256$

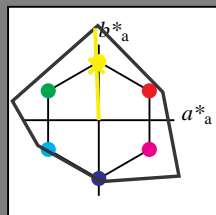
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

NCS11; adapted (a) CIELAB data

| | $L^*=L^*_a$ | a^*_a | b^*_a | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa | 47.15 | 84.64 | 37.25 | 92.48 | 24 |
| JMa | 91.37 | -1.27 | 125.03 | 125.03 | 91 |
| GMa | 63.07 | -114.28 | 25.35 | 117.06 | 167 |
| G50BMa | 59.47 | -80.6 | -33.45 | 87.28 | 203 |
| BMa | 49.01 | 3.65 | -81.19 | 81.28 | 273 |
| B50RMa | 44.06 | 106.09 | -73.93 | 129.32 | 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 |
| JCIE | 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 |

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 92/360 = 0.256$

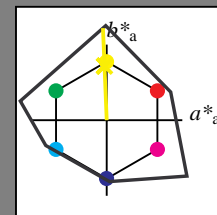
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 149$

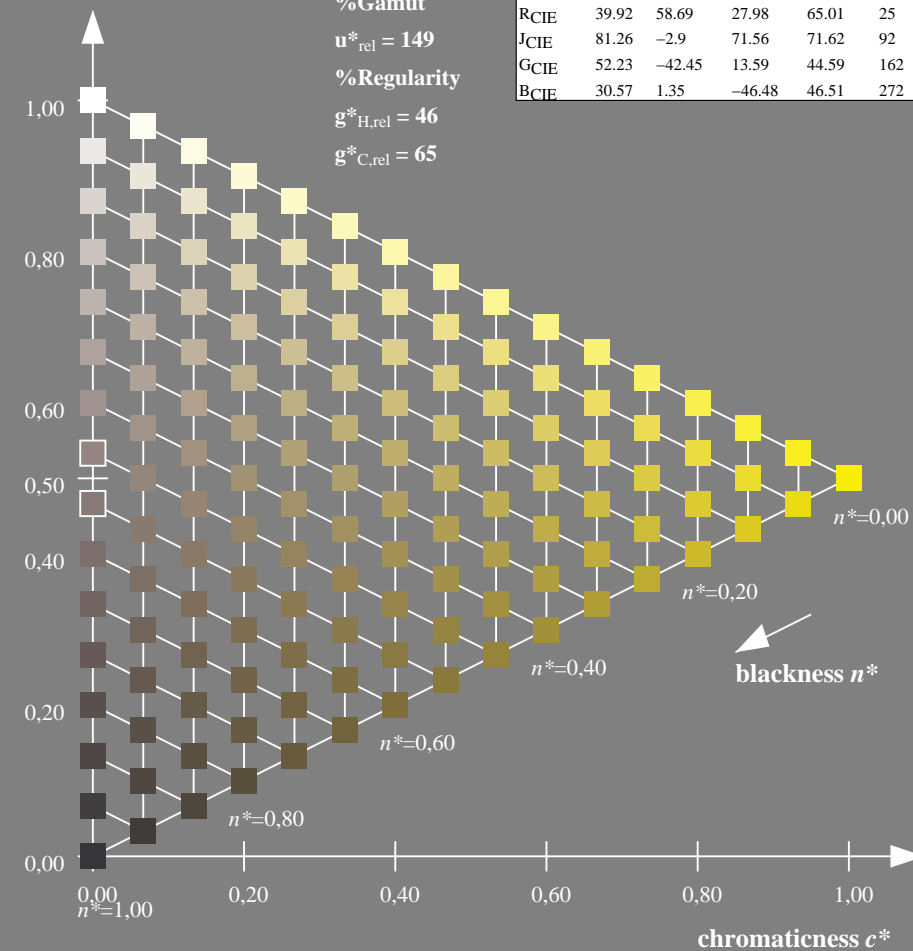
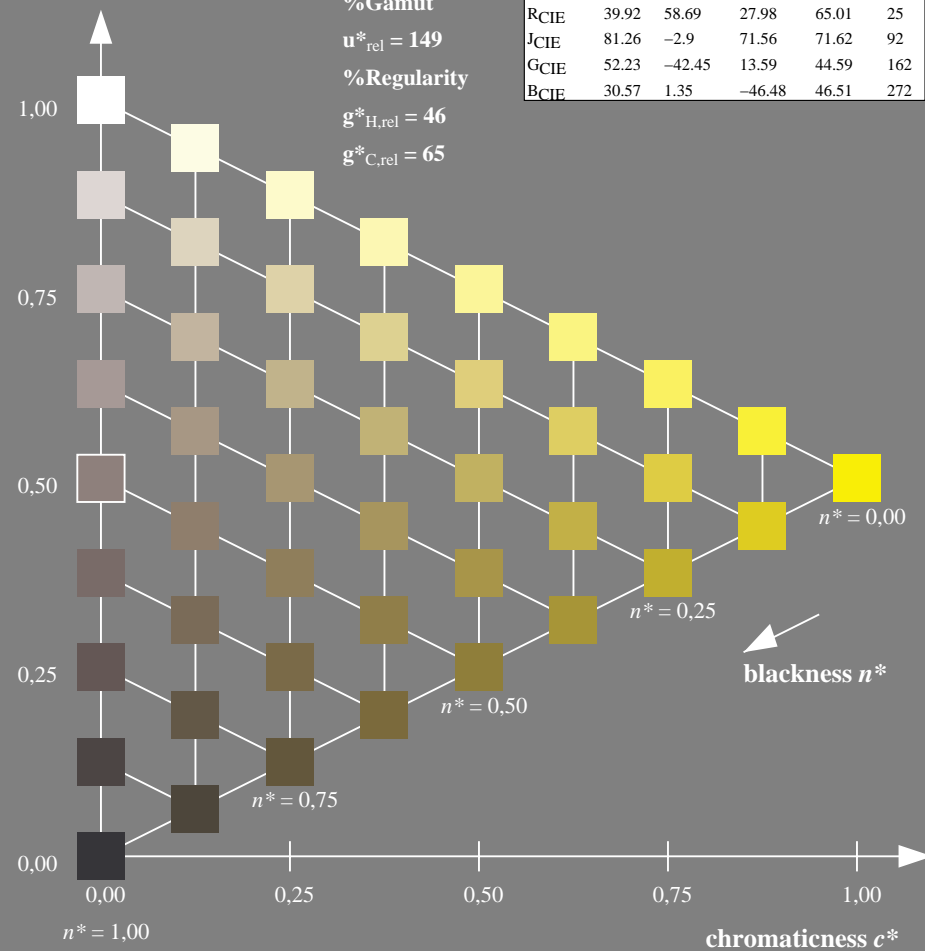
%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

NCS11; adapted (a) CIELAB data

| | $L^*=L^*_a$ | a^*_a | b^*_a | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa | 47.15 | 84.64 | 37.25 | 92.48 | 24 |
| JMa | 91.37 | -1.27 | 125.03 | 125.03 | 91 |
| GMa | 63.07 | -114.28 | 25.35 | 117.06 | 167 |
| G50BMa | 59.47 | -80.6 | -33.45 | 87.28 | 203 |
| BMa | 49.01 | 3.65 | -81.19 | 81.28 | 273 |
| B50RMa | 44.06 | 106.09 | -73.93 | 129.32 | 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 |
| JCIE | 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 |



UE790-7, 9 step scales for constant CIELAB hue 92/360 = 0.256 (left)

16 step scales for constant CIELAB hue 92/360 = 0.256 (right)

BAM-test chart UE79; Colorimetric systems NCS11a & NCS11ainput: *cmY0* setcmykcolor*

D65: 9 and 16 step colour scales for 10 hues

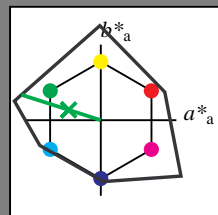
output: *no change compared to input*

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 162/360 = 0.451$
 lab^*tch and lab^*nch

D65: hue G
 LCH*Ma: 65 110 162
 rgb*Ma: 0.08 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

NCS11; adapted (a) CIELAB data

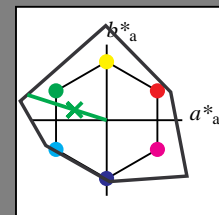
| | $L^* = L^*_a$ | a^*_a | b^*_a | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa | 47.15 | 84.64 | 37.25 | 92.48 | 24 |
| JMa | 91.37 | -1.27 | 125.03 | 125.03 | 91 |
| GMa | 63.07 | -114.28 | 25.35 | 117.06 | 167 |
| G50BMa | 59.47 | -80.6 | -33.45 | 87.28 | 203 |
| BMa | 49.01 | 3.65 | -81.19 | 81.28 | 273 |
| B50RMa | 44.06 | 106.09 | -73.93 | 129.32 | 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 |
| JCIE | 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 |

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 162/360 = 0.451$
 lab^*tch and lab^*nch

D65: hue G
 LCH*Ma: 65 110 162
 rgb*Ma: 0.08 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 149$

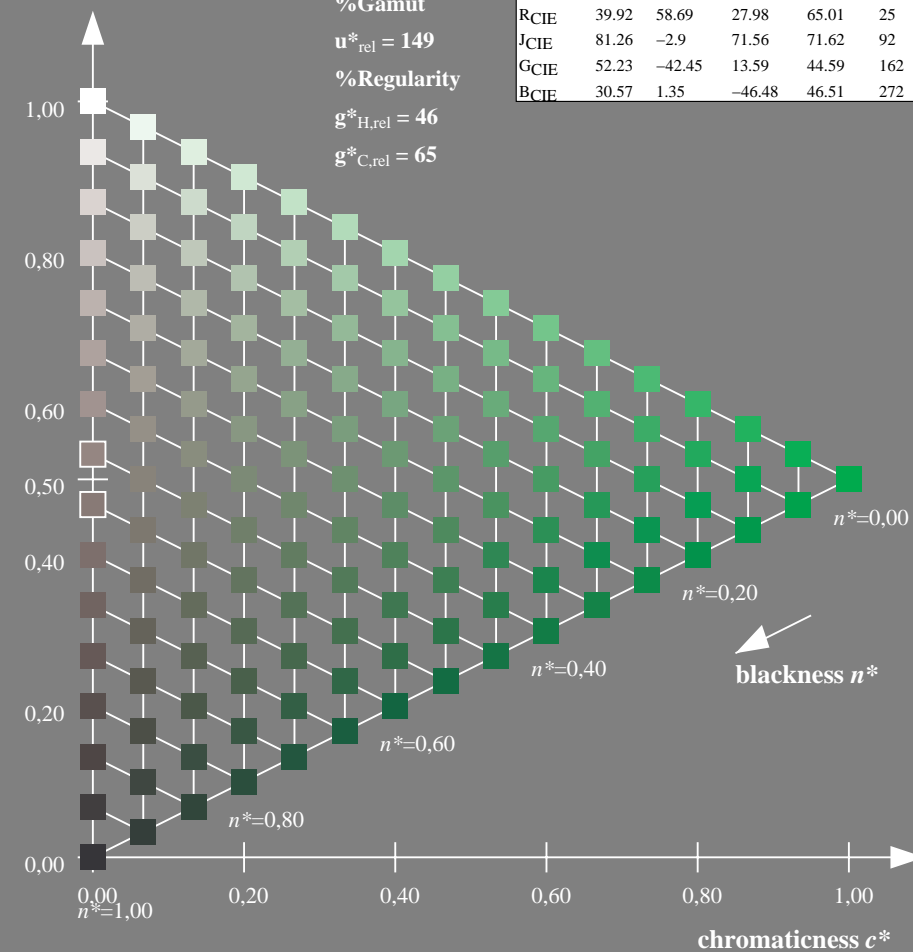
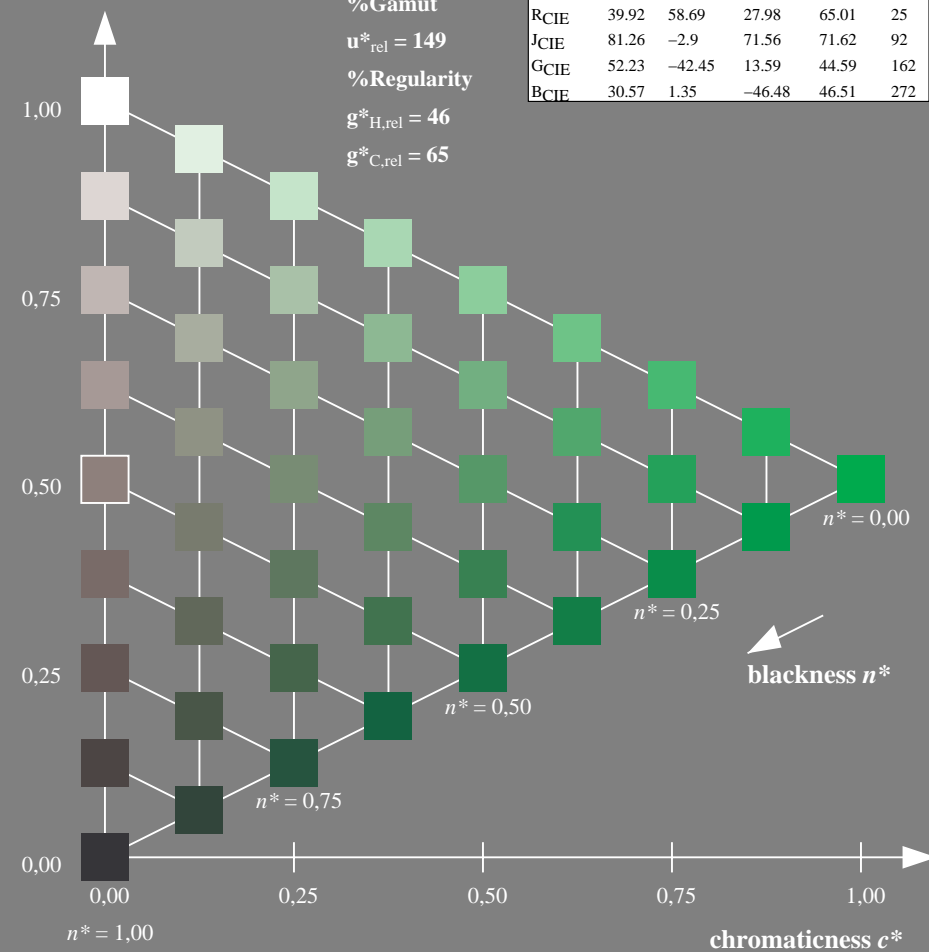
%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

NCS11; adapted (a) CIELAB data

| | $L^* = L^*_a$ | a^*_a | b^*_a | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa | 47.15 | 84.64 | 37.25 | 92.48 | 24 |
| JMa | 91.37 | -1.27 | 125.03 | 125.03 | 91 |
| GMa | 63.07 | -114.28 | 25.35 | 117.06 | 167 |
| G50BMa | 59.47 | -80.6 | -33.45 | 87.28 | 203 |
| BMa | 49.01 | 3.65 | -81.19 | 81.28 | 273 |
| B50RMa | 44.06 | 106.09 | -73.93 | 129.32 | 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 |
| JCIE | 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 |



UE790-7, 9 step scales for constant CIELAB hue 162/360 = 0.451 (left)

16 step scales for constant CIELAB hue 162/360 = 0.451 (right)

BAM-test chart UE79; Colorimetric systems NCS11a & NCS11ainput: *cmY0* setcmykcolor*

D65: 9 and 16 step colour scales for 10 hues

output: *no change compared to input*

Input: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 272/360 = 0.755$

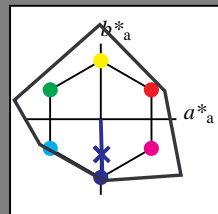
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 149$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

NCS11; adapted (a) CIELAB data

| | $L^* = L^*_a$ | a^*_a | b^*_a | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa | 47.15 | 84.64 | 37.25 | 92.48 | 24 |
| JMa | 91.37 | -1.27 | 125.03 | 125.03 | 91 |
| GMa | 63.07 | -114.28 | 25.35 | 117.06 | 167 |
| G50BMa | 59.47 | -80.6 | -33.45 | 87.28 | 203 |
| BMa | 49.01 | 3.65 | -81.19 | 81.28 | 273 |
| B50RMa | 44.06 | 106.09 | -73.93 | 129.32 | 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 |
| JCIE | 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 |

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 272/360 = 0.755$

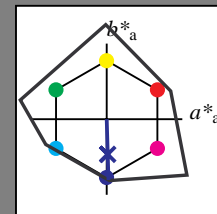
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 49 80 272

rgb*Ma: 0.0 0.02 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 149$

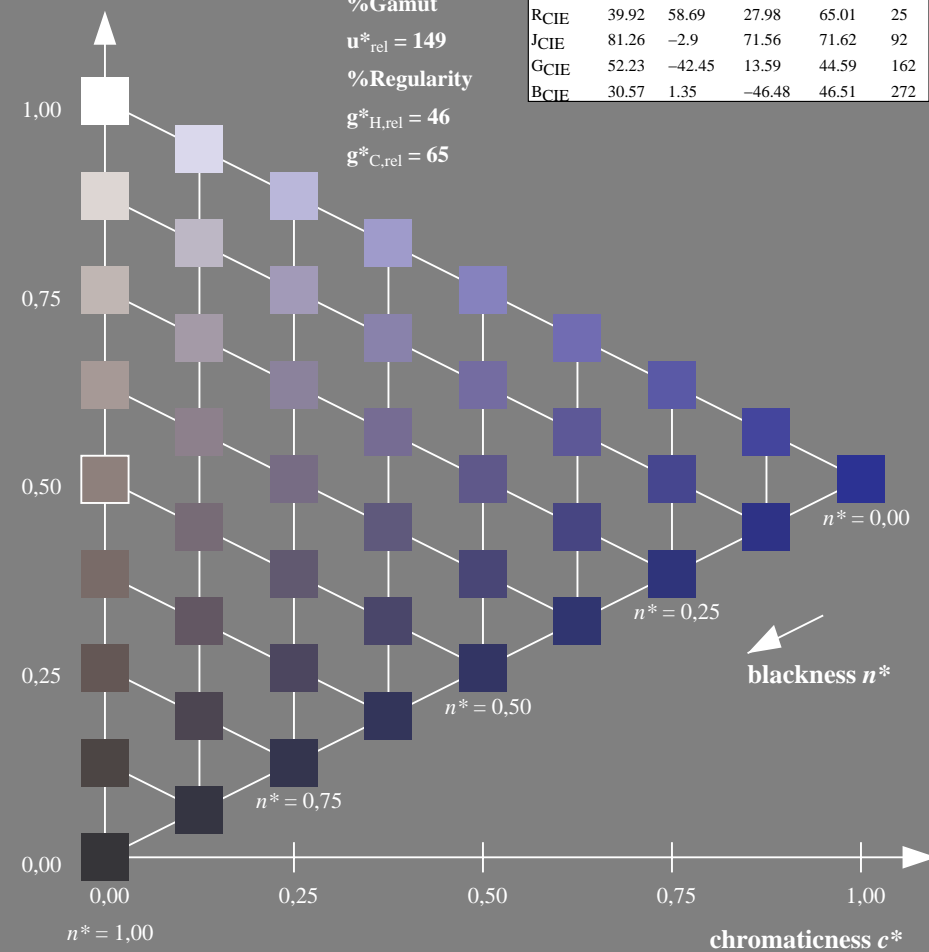
%Regularity

$g^*_{H,rel} = 46$

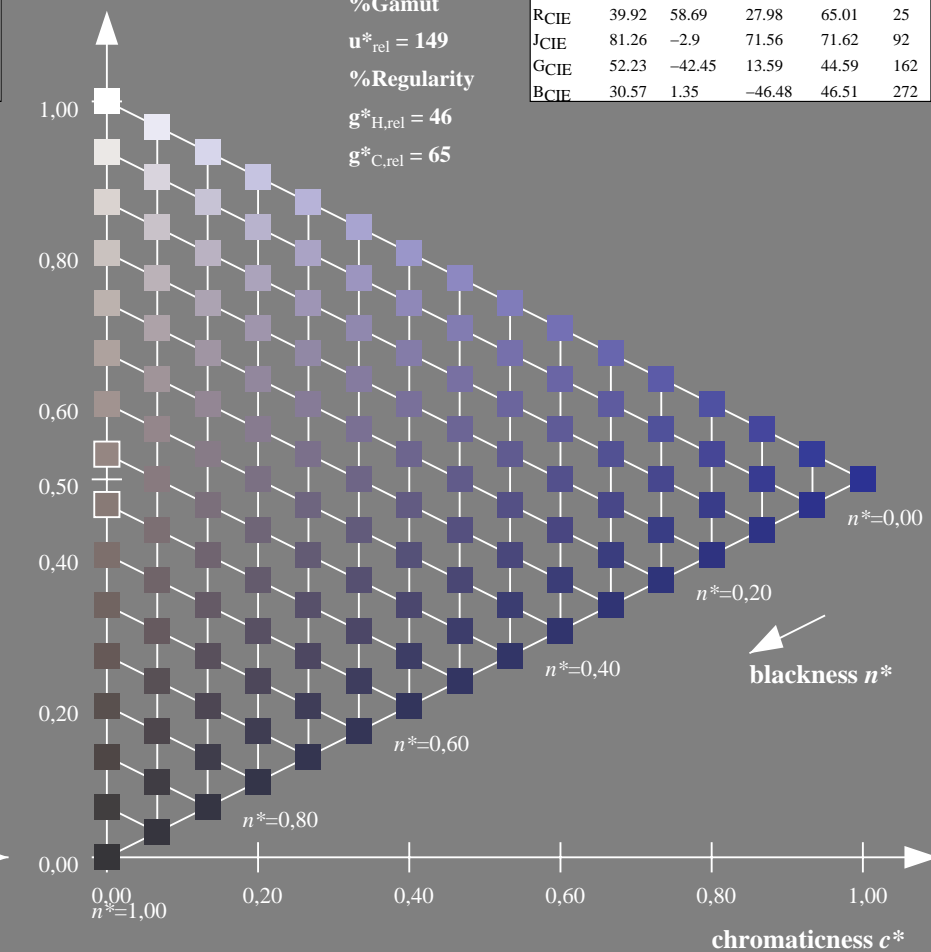
$g^*_{C,rel} = 65$

NCS11; adapted (a) CIELAB data

| | $L^* = L^*_a$ | a^*_a | b^*_a | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|---------------|---------|---------|--------------|--------------|
| RMa | 47.15 | 84.64 | 37.25 | 92.48 | 24 |
| JMa | 91.37 | -1.27 | 125.03 | 125.03 | 91 |
| GMa | 63.07 | -114.28 | 25.35 | 117.06 | 167 |
| G50BMa | 59.47 | -80.6 | -33.45 | 87.28 | 203 |
| BMa | 49.01 | 3.65 | -81.19 | 81.28 | 273 |
| B50RMa | 44.06 | 106.09 | -73.93 | 129.32 | 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 |
| JCIE | 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 |



UE790-7, 9 step scales for constant CIELAB hue 272/360 = 0.755 (left)



16 step scales for constant CIELAB hue 272/360 = 0.755 (right)

BAM-test chart UE79; Colorimetric systems NCS11a & NCS11ainput: *cmY0* setcmykcolor*

D65: 9 and 16 step colour scales for 10 hues

output: *no change compared to input*