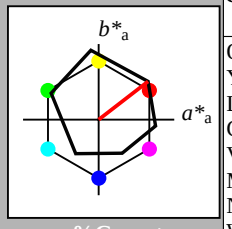
## Input: Colorimetric Offset Reflective System ORS18

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

**A: hue O**
**LCH*Ma: 48 83 38**
**olv*Ma: 1.0 0.0 0.0**

**triangle lightness**

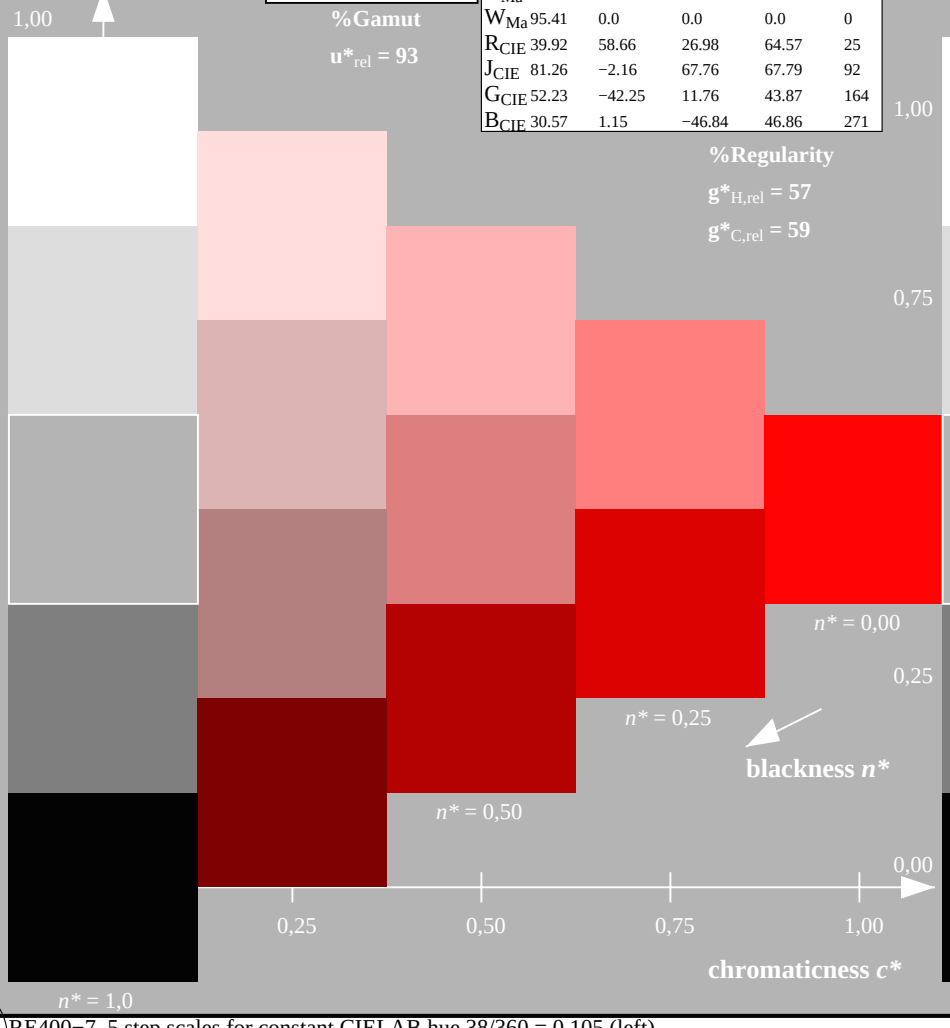



**%Gamut**
**u*rel = 93**

**ORS18; adapted (a) CIELAB data**

| | L*=L*a | a*a | b*a | C*ab,a | h*ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.39 | 50.52 | 82.63 | 38 |
| $Y_{Ma}$ | 90.37 | −10.26 | 91.75 | 92.32 | 96 |
| $L_{Ma}$ | 50.9 | −62.83 | 34.96 | 71.91 | 151 |
| $C_{Ma}$ | 58.62 | −30.34 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.72 | 31.1 | −44.4 | 54.22 | 305 |
| $M_{Ma}$ | 48.13 | 75.28 | −8.36 | 75.74 | 354 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.66 | 26.98 | 64.57 | 25 |
| $J_{CIE}$ | 81.26 | −2.16 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.25 | 11.76 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.86 | 271 |

**%Regularity**
**g*H,rel = 57**
**g*C,rel = 59**

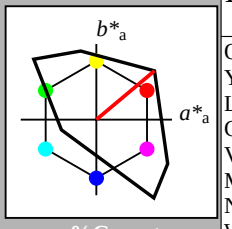



## Output: Colorimetric Television Luminous System TLS00

**for hue *h** = lab*h = 40/360 = 0.111**
***lab*tch* and *lab*nch***

**A: hue O**
**LCH*Ma: 51 100 40**
**olv*Ma: 1.0 0.0 0.0**

**triangle lightness**

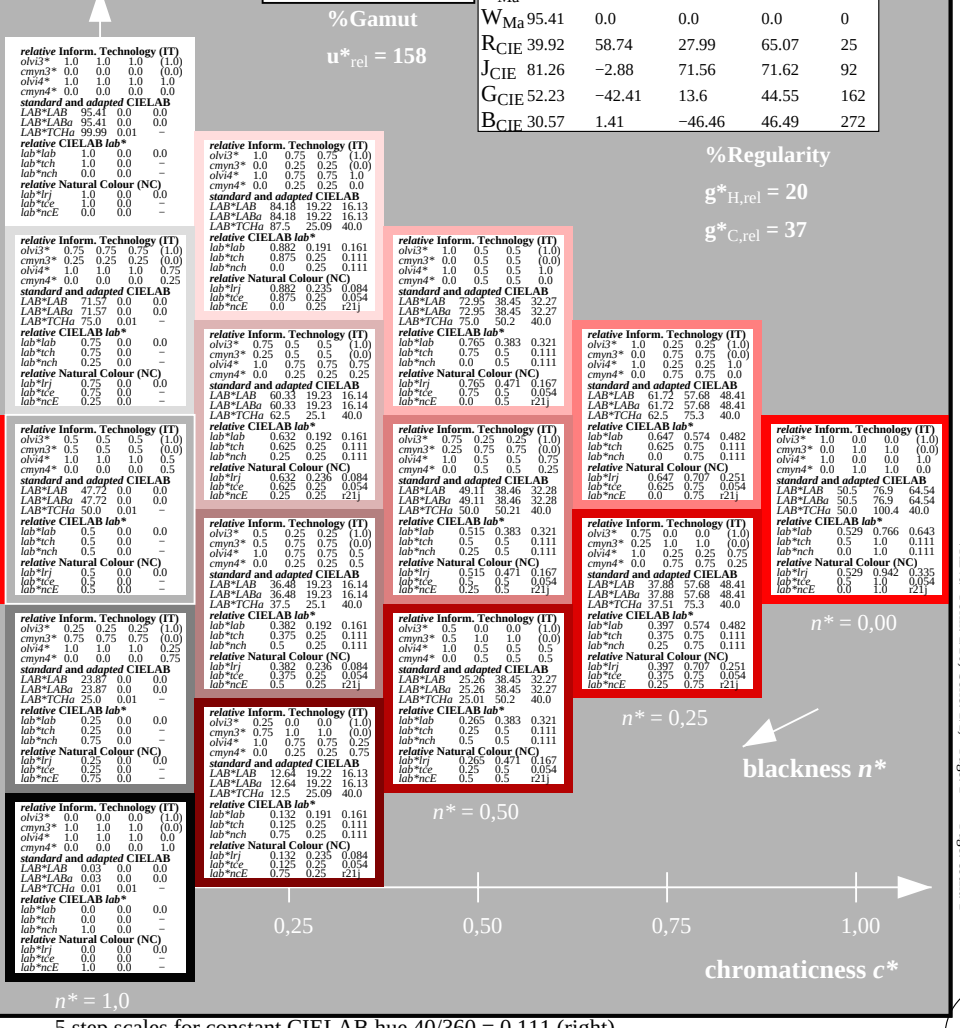



**%Gamut**
**u*rel = 158**

**TLS00; adapted (a) CIELAB data**

| | L*=L*a | a*a | b*a | C*ab,a | h*ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 50.5 | 76.92 | 64.55 | 100.42 | 40 |
| $Y_{Ma}$ | 92.66 | −20.69 | 90.75 | 93.08 | 103 |
| $L_{Ma}$ | 83.63 | −82.75 | 79.9 | 115.04 | 136 |
| $C_{Ma}$ | 86.88 | −46.16 | −13.55 | 48.12 | 196 |
| $V_{Ma}$ | 30.39 | 76.06 | −103.59 | 128.52 | 306 |
| $M_{Ma}$ | 57.3 | 94.35 | −58.41 | 110.97 | 328 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 27.99 | 65.07 | 25 |
| $J_{CIE}$ | 81.26 | −2.88 | 71.56 | 71.62 | 92 |
| $G_{CIE}$ | 52.23 | −42.41 | 13.6 | 44.55 | 162 |
| $B_{CIE}$ | 30.57 | 1.41 | −46.46 | 46.49 | 272 |

**%Regularity**
**g*H,rel = 20**
**g*C,rel = 37**




RE400−7, 5 step scales for constant CIELAB hue 38/360 = 0.105 (left)

5 step scales for constant CIELAB hue 40/360 = 0.111 (right)

BAM-test chart RE40; Colorimetric systems ORS18 & TLS00
A: 5 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *olv* setrgbcolor / w* setgray*

See for similar files: http://www.ps.bam.de/RE40/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1, CIELAB

BAM registration: 20060101-RE40/10Q/Q40E00FP.PS/.PDF
application for evaluation and measurement of printer or monitor systems

BAM material: code=rha4ta

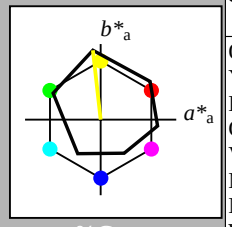
/RE40/ Form: 1/10, Serie: 1/1, Page: 1 Page: count: 1

## Input: Colorimetric Offset Reflective System ORS18

**for hue *h** = *lab*h* = 96/360 = 0.268**
***lab*tch* and *lab*nch***

**A: hue Y**
**LCH*Ma: 90 92 96**
**olv*Ma: 1.0 1.0 0.0**

**triangle lightness**




**%Gamut**
**u*rel = 93**

**ORS18; adapted (a) CIELAB data**

| | L*=L*a | a*a | b*a | C*ab,a | h*ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.39 | 50.52 | 82.63 | 38 |
| $Y_{Ma}$ | 90.37 | −10.26 | 91.75 | 92.32 | 96 |
| $L_{Ma}$ | 50.9 | −62.83 | 34.96 | 71.91 | 151 |
| $C_{Ma}$ | 58.62 | −30.34 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.72 | 31.1 | −44.4 | 54.22 | 305 |
| $M_{Ma}$ | 48.13 | 75.28 | −8.36 | 75.74 | 354 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.66 | 26.98 | 64.57 | 25 |
| $J_{CIE}$ | 81.26 | −2.16 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.25 | 11.76 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.86 | 271 |

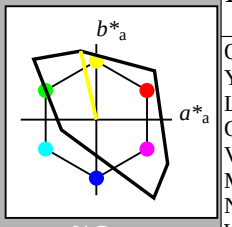
**%Regularity**
**g*H,rel = 57**
**g*C,rel = 59**

## Output: Colorimetric Television Luminous System TLS00

**for hue *h** = *lab*h* = 103/360 = 0.286**
***lab*tch* and *lab*nch***

**A: hue Y**
**LCH*Ma: 93 93 103**
**olv*Ma: 1.0 1.0 0.0**

**triangle lightness**

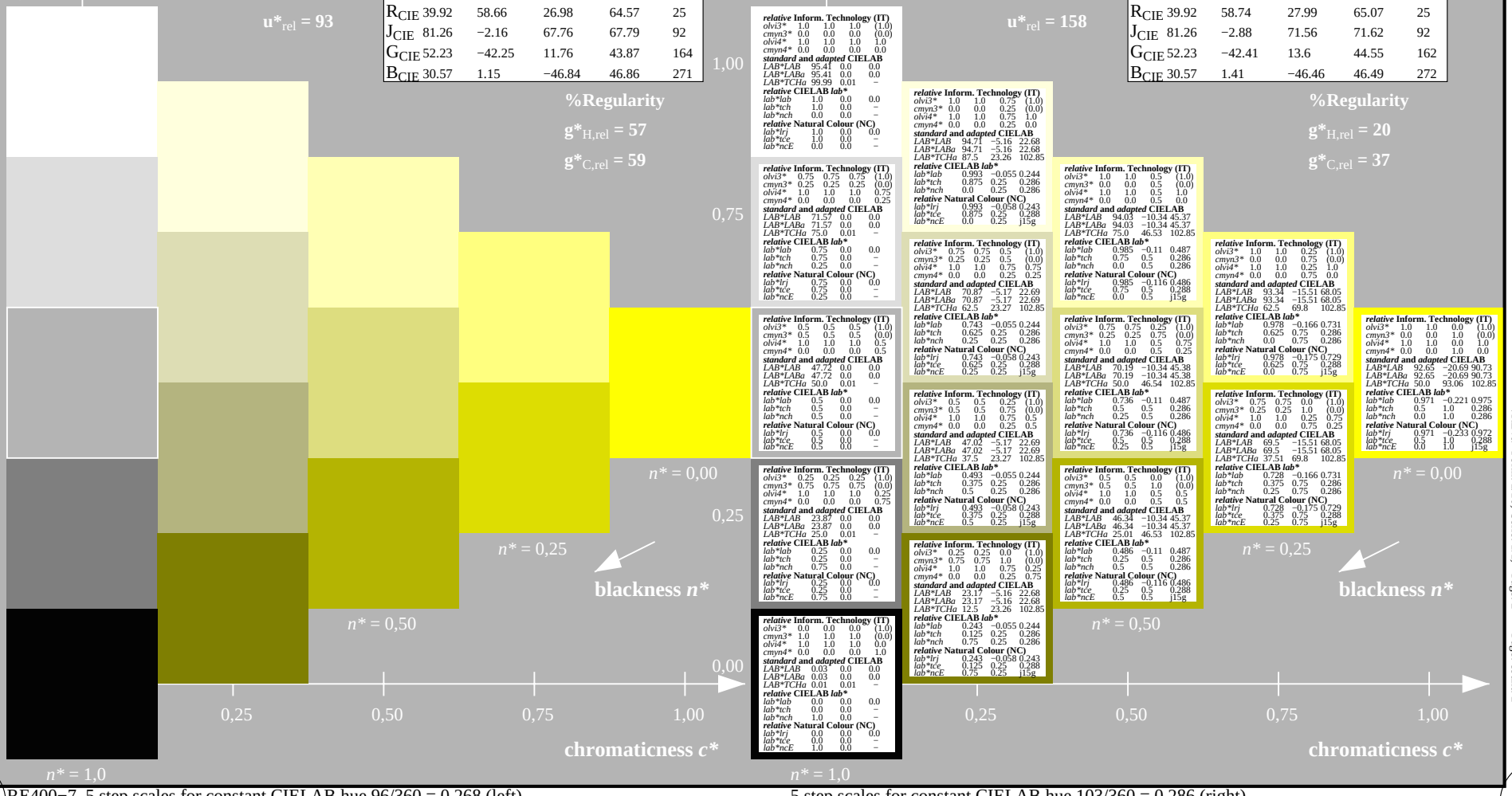



**%Gamut**
**u*rel = 158**

**TLS00; adapted (a) CIELAB data**

| | L*=L*a | a*a | b*a | C*ab,a | h*ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 50.5 | 76.92 | 64.55 | 100.42 | 40 |
| $Y_{Ma}$ | 92.66 | −20.69 | 90.75 | 93.08 | 103 |
| $L_{Ma}$ | 83.63 | −82.75 | 79.9 | 115.04 | 136 |
| $C_{Ma}$ | 86.88 | −46.16 | −13.55 | 48.12 | 196 |
| $V_{Ma}$ | 30.39 | 76.06 | −103.59 | 128.52 | 306 |
| $M_{Ma}$ | 57.3 | 94.35 | −58.41 | 110.97 | 328 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 27.99 | 65.07 | 25 |
| $J_{CIE}$ | 81.26 | −2.88 | 71.56 | 71.62 | 92 |
| $G_{CIE}$ | 52.23 | −42.41 | 13.6 | 44.55 | 162 |
| $B_{CIE}$ | 30.57 | 1.41 | −46.46 | 46.49 | 272 |

**%Regularity**
**g*H,rel = 20**
**g*C,rel = 37**




RE400−7, 5 step scales for constant CIELAB hue 96/360 = 0.268 (left)

5 step scales for constant CIELAB hue 103/360 = 0.286 (right)

BAM-test chart RE40; Colorimetric systems ORS18 & TLS00
A: 5 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *olv* setrgbcolor / w* setgray*

See for similar files: http://www.ps.bam.de/RE40/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1, CIELAB

BAM registration: 20060101-RE40/10Q/Q40E01FP.PS/.PDF
application for evaluation and measurement of printer or monitor systems

BAM material: code=rha4ta

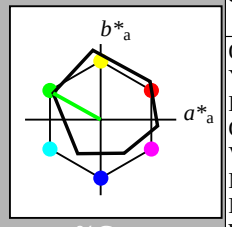
/RE40/ Form: 2/10, Serie: 1/1, Page: 2 Page: count: 2

## Input: Colorimetric Offset Reflective System ORS18

**for hue *h** = *lab*h* = 151/360 = 0.419**
***lab*tch* and *lab*nch***

**A: hue L**
**LCH*Ma: 51 72 151**
**olv*Ma: 0.0 1.0 0.0**

**triangle lightness**




**%Gamut**
**u*rel = 93**

**ORS18; adapted (a) CIELAB data**

| | L*=L*a | a*a | b*a | C*ab,a | h*ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.39 | 50.52 | 82.63 | 38 |
| $Y_{Ma}$ | 90.37 | −10.26 | 91.75 | 92.32 | 96 |
| $L_{Ma}$ | 50.9 | −62.83 | 34.96 | 71.91 | 151 |
| $C_{Ma}$ | 58.62 | −30.34 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.72 | 31.1 | −44.4 | 54.22 | 305 |
| $M_{Ma}$ | 48.13 | 75.28 | −8.36 | 75.74 | 354 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.66 | 26.98 | 64.57 | 25 |
| $J_{CIE}$ | 81.26 | −2.16 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.25 | 11.76 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.86 | 271 |

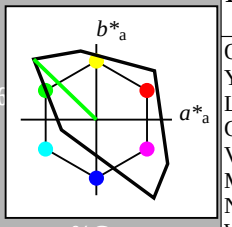
**%Regularity**
**g*H,rel = 57**
**g*C,rel = 59**

## Output: Colorimetric Television Luminous System TLS00

**for hue *h** = *lab*h* = 136/360 = 0.378**
***lab*tch* and *lab*nch***

**A: hue L**
**LCH*Ma: 84 115 136**
**olv*Ma: 0.0 1.0 0.0**

**triangle lightness**

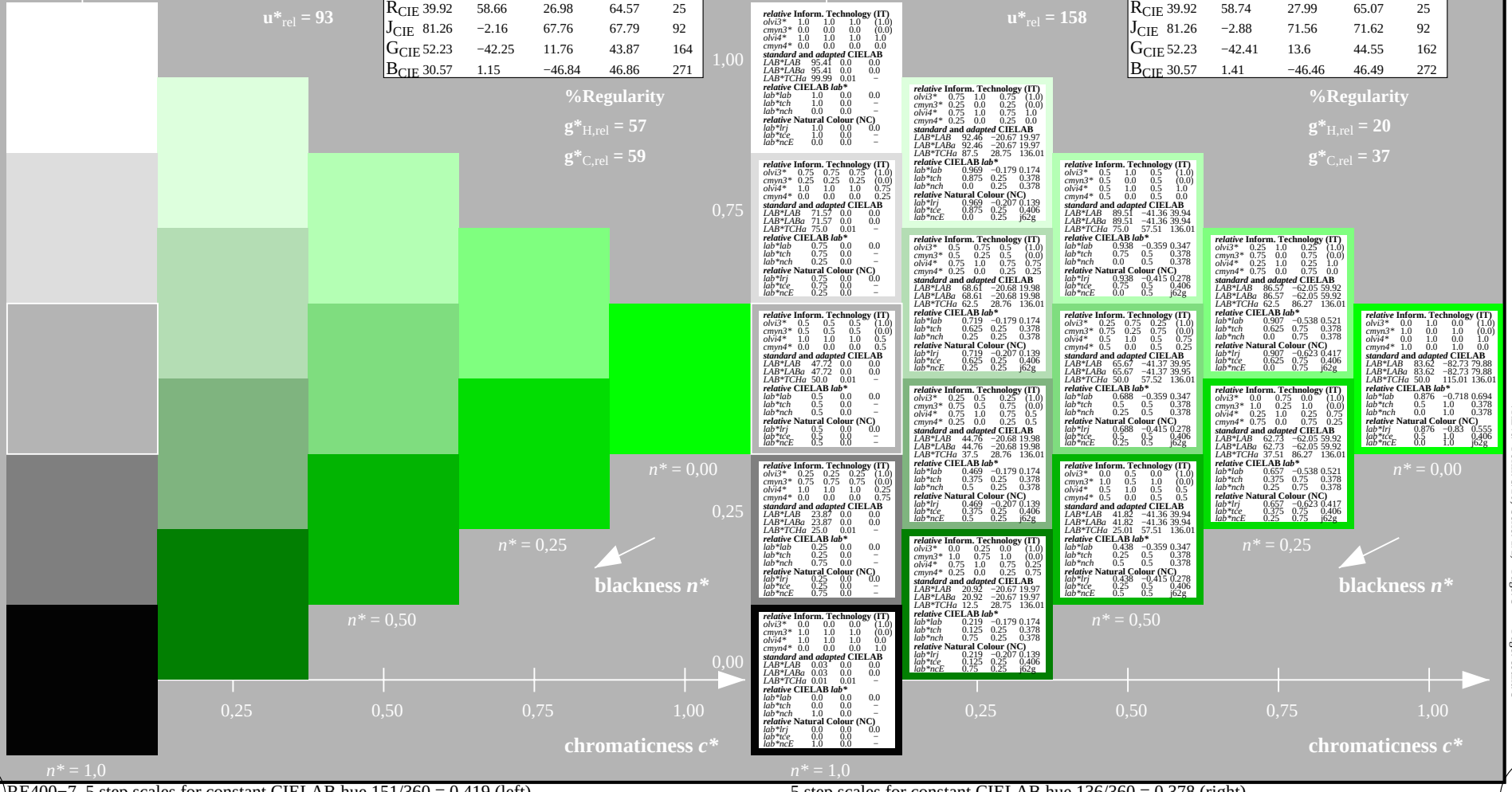



**%Gamut**
**u*rel = 158**

**TLS00; adapted (a) CIELAB data**

| | L*=L*a | a*a | b*a | C*ab,a | h*ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 50.5 | 76.92 | 64.55 | 100.42 | 40 |
| $Y_{Ma}$ | 92.66 | −20.69 | 90.75 | 93.08 | 103 |
| $L_{Ma}$ | 83.63 | −82.75 | 79.9 | 115.04 | 136 |
| $C_{Ma}$ | 86.88 | −46.16 | −13.55 | 48.12 | 196 |
| $V_{Ma}$ | 30.39 | 76.06 | −103.59 | 128.52 | 306 |
| $M_{Ma}$ | 57.3 | 94.35 | −58.41 | 110.97 | 328 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 27.99 | 65.07 | 25 |
| $J_{CIE}$ | 81.26 | −2.88 | 71.56 | 71.62 | 92 |
| $G_{CIE}$ | 52.23 | −42.41 | 13.6 | 44.55 | 162 |
| $B_{CIE}$ | 30.57 | 1.41 | −46.46 | 46.49 | 272 |

**%Regularity**
**g*H,rel = 20**
**g*C,rel = 37**




RE400−7, 5 step scales for constant CIELAB hue 151/360 = 0.419 (left)

5 step scales for constant CIELAB hue 136/360 = 0.378 (right)

BAM-test chart RE40; Colorimetric systems ORS18 & TLS00
A: 5 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *olv* setrgbcolor / w* setgray*

See for similar files: http://www.ps.bam.de/RE40/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1, CIELAB

BAM registration: 20060101-RE40/10Q/Q40E02FP.PS/.PDF
application for evaluation and measurement of printer or monitor systems

BAM material: code=rha4ta

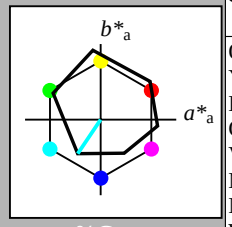
/RE40/ Form: 3/10, Serie: 1/1, Page: 3 Page: count: 3

## Input: Colorimetric Offset Reflective System ORS18

**for hue *h** = *lab*h* = 236/360 = 0.656**
***lab*tch* and *lab*nch***

**A: hue C**
**LCH*Ma: 59 54 236**
**olv*Ma: 0.0 1.0 1.0**

**triangle lightness**

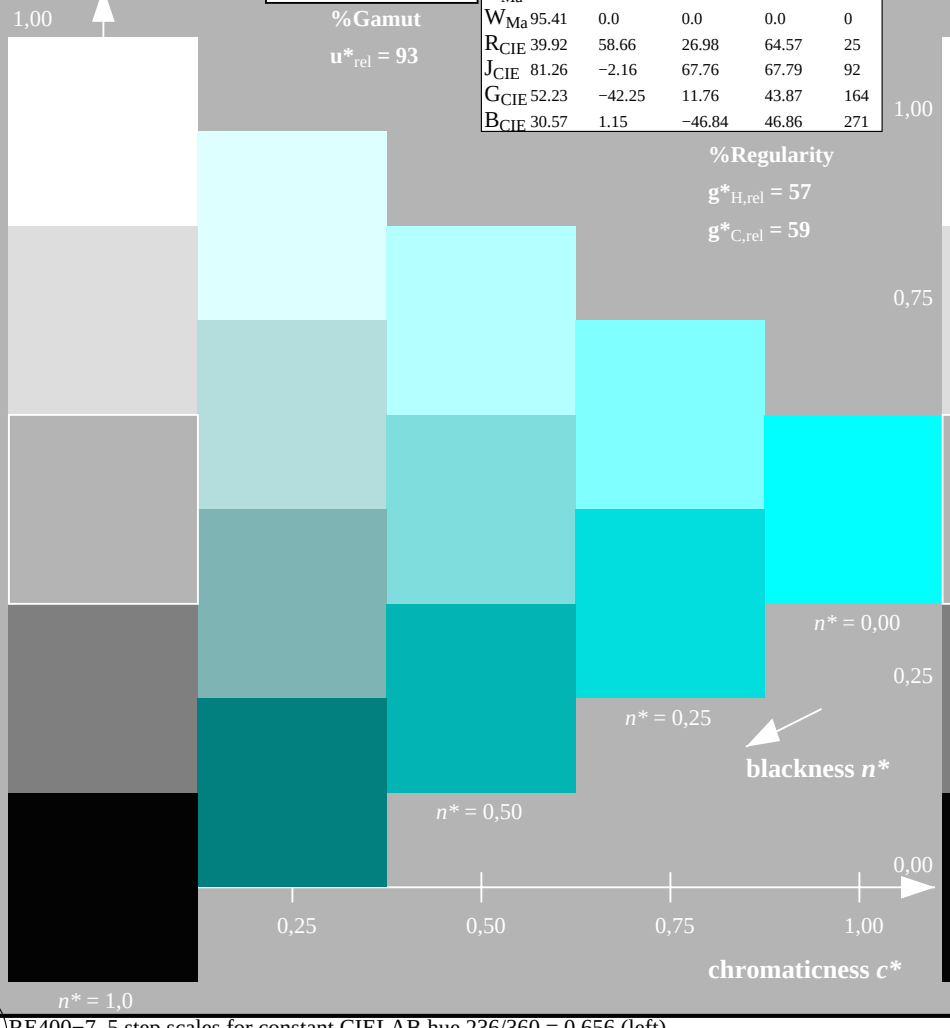



**%Gamut**
**u*rel = 93**

**ORS18; adapted (a) CIELAB data**

| | L*=L*a | a*a | b*a | C*ab,a | h*ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.39 | 50.52 | 82.63 | 38 |
| $Y_{Ma}$ | 90.37 | −10.26 | 91.75 | 92.32 | 96 |
| $L_{Ma}$ | 50.9 | −62.83 | 34.96 | 71.91 | 151 |
| $C_{Ma}$ | 58.62 | −30.34 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.72 | 31.1 | −44.4 | 54.22 | 305 |
| $M_{Ma}$ | 48.13 | 75.28 | −8.36 | 75.74 | 354 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.66 | 26.98 | 64.57 | 25 |
| $J_{CIE}$ | 81.26 | −2.16 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.25 | 11.76 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.86 | 271 |

**%Regularity**
**g*H,rel = 57**
**g*C,rel = 59**

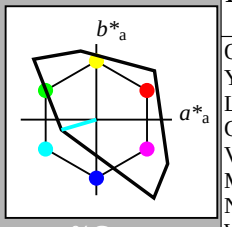



## Output: Colorimetric Television Luminous System TLS00

**for hue *h** = *lab*h* = 196/360 = 0.545**
***lab*tch* and *lab*nch***

**A: hue C**
**LCH*Ma: 87 48 196**
**olv*Ma: 0.0 1.0 1.0**

**triangle lightness**

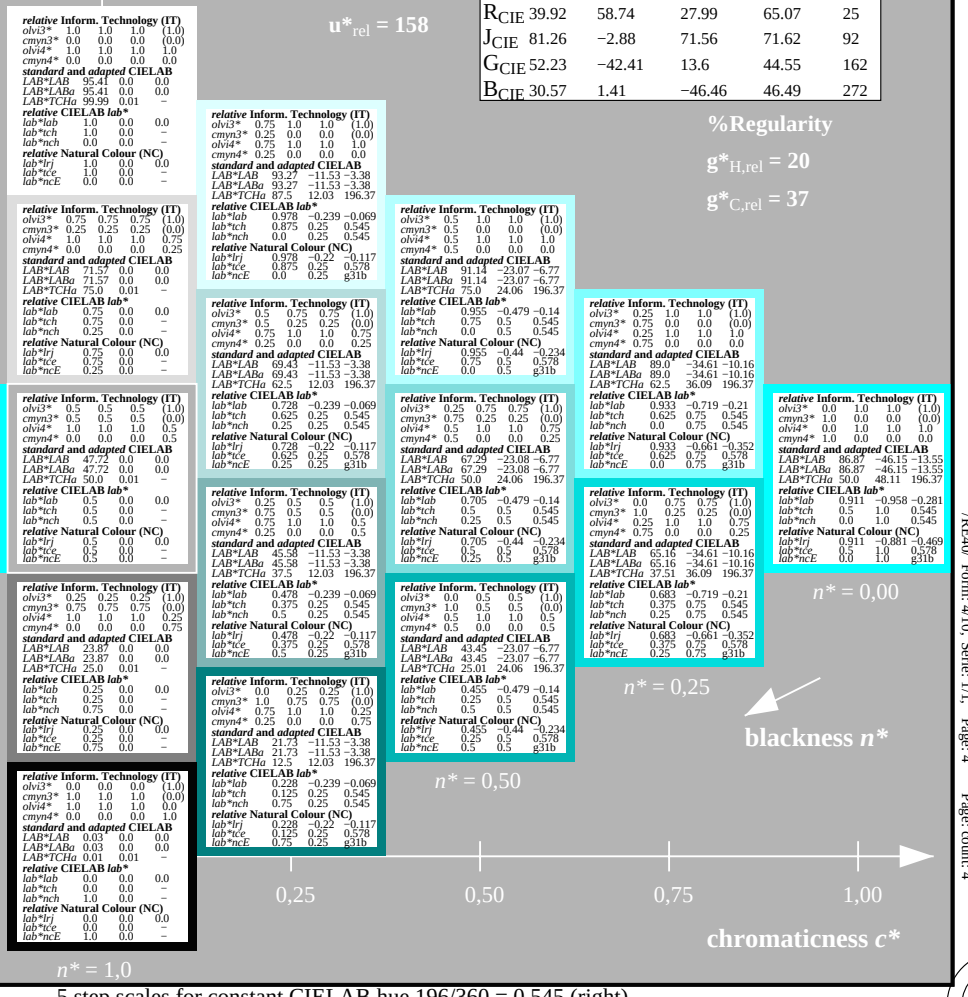



**%Gamut**
**u*rel = 158**

**TLS00; adapted (a) CIELAB data**

| | L*=L*a | a*a | b*a | C*ab,a | h*ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 50.5 | 76.92 | 64.55 | 100.42 | 40 |
| $Y_{Ma}$ | 92.66 | −20.69 | 90.75 | 93.08 | 103 |
| $L_{Ma}$ | 83.63 | −82.75 | 79.9 | 115.04 | 136 |
| $C_{Ma}$ | 86.88 | −46.16 | −13.55 | 48.12 | 196 |
| $V_{Ma}$ | 30.39 | 76.06 | −103.59 | 128.52 | 306 |
| $M_{Ma}$ | 57.3 | 94.35 | −58.41 | 110.97 | 328 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 27.99 | 65.07 | 25 |
| $J_{CIE}$ | 81.26 | −2.88 | 71.56 | 71.62 | 92 |
| $G_{CIE}$ | 52.23 | −42.41 | 13.6 | 44.55 | 162 |
| $B_{CIE}$ | 30.57 | 1.41 | −46.46 | 46.49 | 272 |

**%Regularity**
**g*H,rel = 20**
**g*C,rel = 37**




RE400−7, 5 step scales for constant CIELAB hue 236/360 = 0.656 (left)

5 step scales for constant CIELAB hue 196/360 = 0.545 (right)

BAM-test chart RE40; Colorimetric systems ORS18 & TLS00
A: 5 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *olv* setrgbcolor / w* setgray*

See for similar files: http://www.ps.bam.de/RE40/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1, CIELAB

BAM registration: 20060101-RE40/10Q/Q40E03FP.PS/.PDF
application for evaluation and measurement of printer or monitor systems

BAM material: code=rha4ta

/RE40/ Form: 4/10, Serie: 1/1, Page: 4 Page: count: 4

See for similar files: http://www.ps.bam.de/RE40/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1, CIELAB

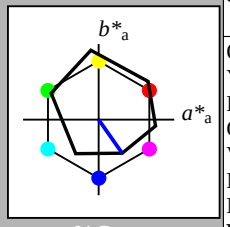
BAM registration: 20060101-RE40/10Q/Q40E04FP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems
/RE40/ Form: 5/10, Serie: 1/1, Page: 5 Page: count: 5

## Input: Colorimetric Offset Reflective System ORS18

**for hue *h** = *lab*h* = 305/360 = 0.847**
***lab*tch* and *lab*nch***

**A: hue V**
**LCH*Ma: 26 54 305**
**olv*Ma: 0.0 0.0 1.0**

**triangle lightness**




**%Gamut**
**u*rel = 93**

**ORS18; adapted (a) CIELAB data**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.39 | 50.52 | 82.63 | 38 |
| $Y_{Ma}$ | 90.37 | −10.26 | 91.75 | 92.32 | 96 |
| $L_{Ma}$ | 50.9 | −62.83 | 34.96 | 71.91 | 151 |
| $C_{Ma}$ | 58.62 | −30.34 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.72 | 31.1 | −44.4 | 54.22 | 305 |
| $M_{Ma}$ | 48.13 | 75.28 | −8.36 | 75.74 | 354 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.66 | 26.98 | 64.57 | 25 |
| $J_{CIE}$ | 81.26 | −2.16 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.25 | 11.76 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.86 | 271 |

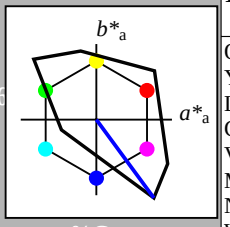
**%Regularity**
**g*H,rel = 57**
**g*C,rel = 59**

## Output: Colorimetric Television Luminous System TLS00

**for hue *h** = *lab*h* = 306/360 = 0.851**
***lab*tch* and *lab*nch***

**A: hue V**
**LCH*Ma: 30 129 306**
**olv*Ma: 0.0 0.0 1.0**

**triangle lightness**

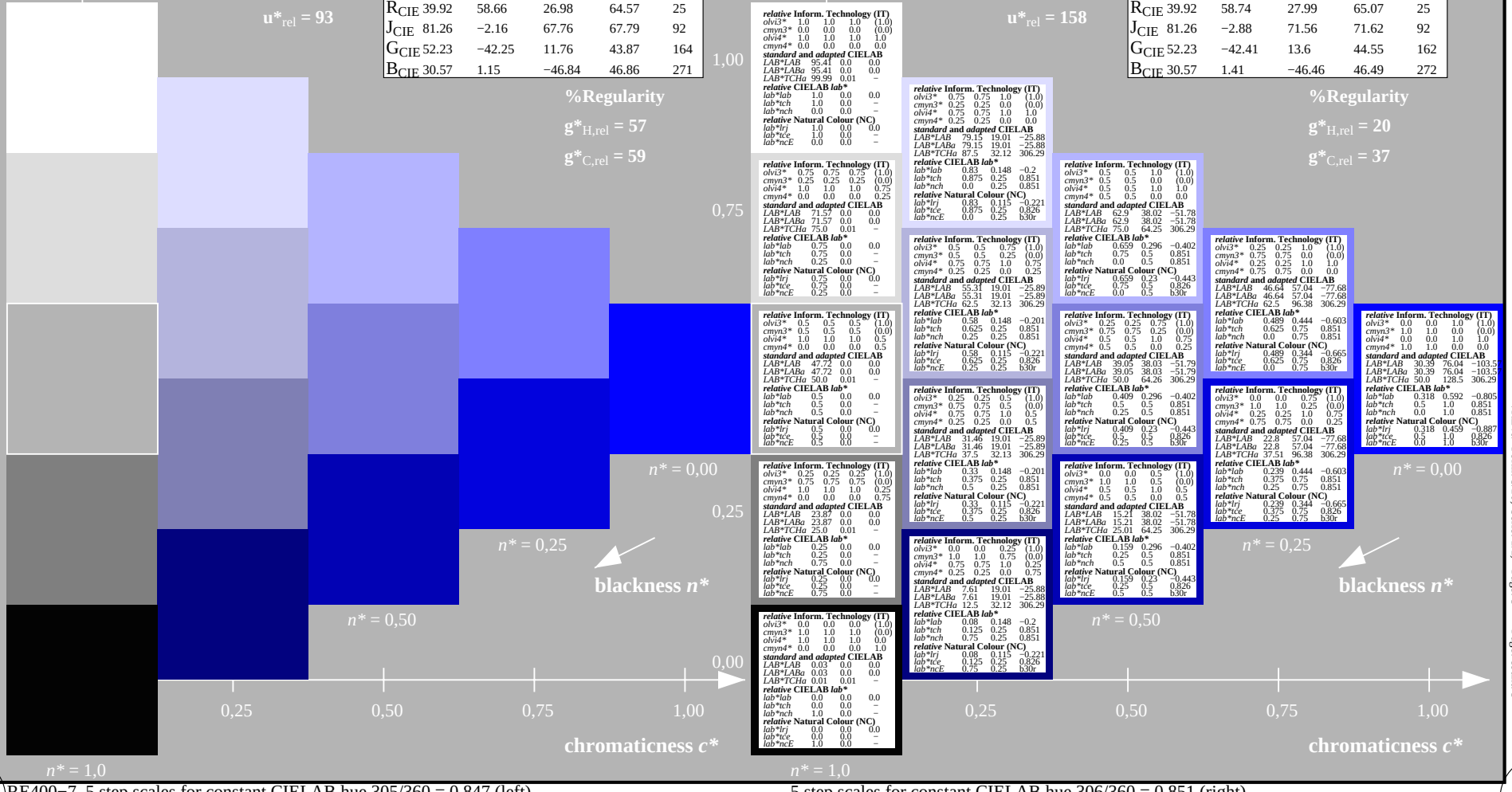



**%Gamut**
**u*rel = 158**

**TLS00; adapted (a) CIELAB data**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 50.5 | 76.92 | 64.55 | 100.42 | 40 |
| $Y_{Ma}$ | 92.66 | −20.69 | 90.75 | 93.08 | 103 |
| $L_{Ma}$ | 83.63 | −82.75 | 79.9 | 115.04 | 136 |
| $C_{Ma}$ | 86.88 | −46.16 | −13.55 | 48.12 | 196 |
| $V_{Ma}$ | 30.39 | 76.06 | −103.59 | 128.52 | 306 |
| $M_{Ma}$ | 57.3 | 94.35 | −58.41 | 110.97 | 328 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 27.99 | 65.07 | 25 |
| $J_{CIE}$ | 81.26 | −2.88 | 71.56 | 71.62 | 92 |
| $G_{CIE}$ | 52.23 | −42.41 | 13.6 | 44.55 | 162 |
| $B_{CIE}$ | 30.57 | 1.41 | −46.46 | 46.49 | 272 |

**%Regularity**
**g*H,rel = 20**
**g*C,rel = 37**




RE400−7, 5 step scales for constant CIELAB hue 305/360 = 0.847 (left)
5 step scales for constant CIELAB hue 306/360 = 0.851 (right)

BAM-test chart RE40; Colorimetric systems ORS18 & TLS00
A: 5 step colour scales and coordinate data for 10 hues

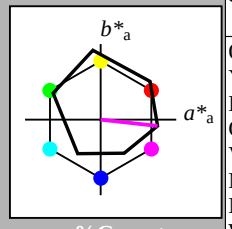
input: *olv* setrgbcolor*
output: *olv* setrgbcolor / w* setgray*

## Input: Colorimetric Offset Reflective System ORS18

**for hue *h** = *lab*h* = 354/360 = 0.982**
***lab*tch* and *lab*nch***

**A: hue M**
**LCH*Ma: 48 76 354**
**olv*Ma: 1.0 0.0 1.0**

**triangle lightness**

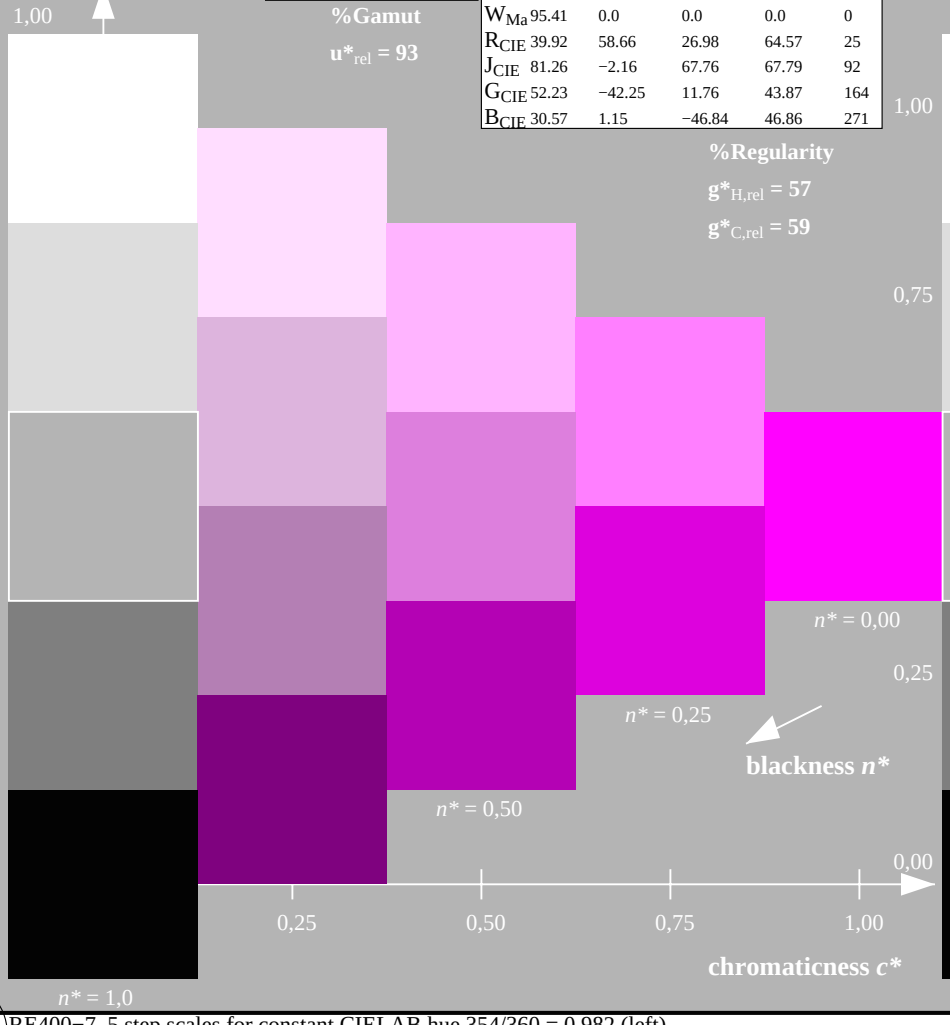



**%Gamut**
**u*rel = 93**

**ORS18; adapted (a) CIELAB data**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.39 | 50.52 | 82.63 | 38 |
| $Y_{Ma}$ | 90.37 | −10.26 | 91.75 | 92.32 | 96 |
| $L_{Ma}$ | 50.9 | −62.83 | 34.96 | 71.91 | 151 |
| $C_{Ma}$ | 58.62 | −30.34 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.72 | 31.1 | −44.4 | 54.22 | 305 |
| $M_{Ma}$ | 48.13 | 75.28 | −8.36 | 75.74 | 354 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.66 | 26.98 | 64.57 | 25 |
| $J_{CIE}$ | 81.26 | −2.16 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.25 | 11.76 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.86 | 271 |

**%Regularity**
**g*H,rel = 57**
**g*C,rel = 59**

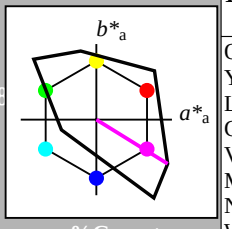



## Output: Colorimetric Television Luminous System TLS00

**for hue *h** = *lab*h* = 328/360 = 0.912**
***lab*tch* and *lab*nch***

**A: hue M**
**LCH*Ma: 57 111 328**
**olv*Ma: 1.0 0.0 1.0**

**triangle lightness**

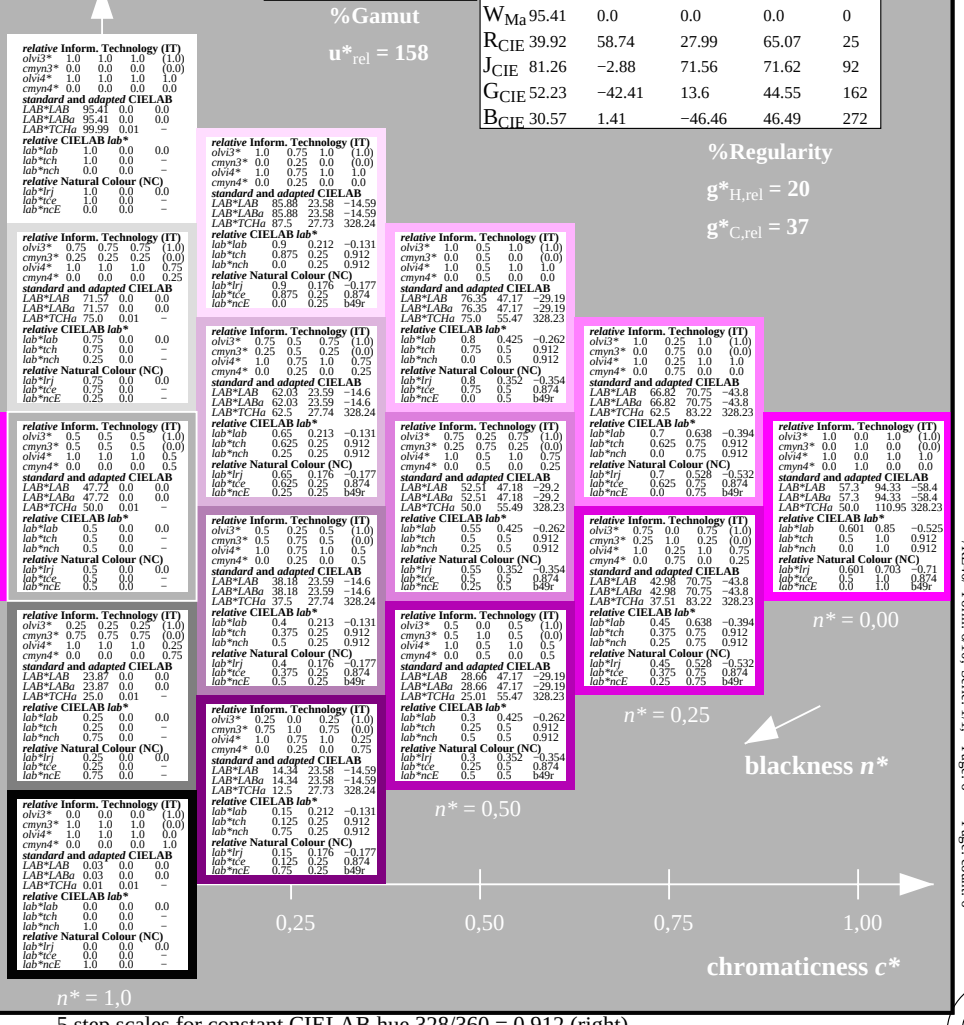



**%Gamut**
**u*rel = 158**

**TLS00; adapted (a) CIELAB data**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 50.5 | 76.92 | 64.55 | 100.42 | 40 |
| $Y_{Ma}$ | 92.66 | −20.69 | 90.75 | 93.08 | 103 |
| $L_{Ma}$ | 83.63 | −82.75 | 79.9 | 115.04 | 136 |
| $C_{Ma}$ | 86.88 | −46.16 | −13.55 | 48.12 | 196 |
| $V_{Ma}$ | 30.39 | 76.06 | −103.59 | 128.52 | 306 |
| $M_{Ma}$ | 57.3 | 94.35 | −58.41 | 110.97 | 328 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 27.99 | 65.07 | 25 |
| $J_{CIE}$ | 81.26 | −2.88 | 71.56 | 71.62 | 92 |
| $G_{CIE}$ | 52.23 | −42.41 | 13.6 | 44.55 | 162 |
| $B_{CIE}$ | 30.57 | 1.41 | −46.46 | 46.49 | 272 |

**%Regularity**
**g*H,rel = 20**
**g*C,rel = 37**




RE400−7, 5 step scales for constant CIELAB hue 354/360 = 0.982 (left)

5 step scales for constant CIELAB hue 328/360 = 0.912 (right)

BAM-test chart RE40; Colorimetric systems ORS18 & TLS00
A: 5 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *olv* setrgbcolor / w* setgray*

See for similar files: http://www.ps.bam.de/RE40/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1, CIELAB

BAM registration: 20060101-RE40/10Q/Q40E05FP.PS/.PDF
application for evaluation and measurement of printer or monitor systems

BAM material: code=rha4ta

/RE40/ Form: 6/10, Serie: 1/1, Page: 6 Page: count: 6

See for similar files: http://www.ps.bam.de/RE40/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1, CIELAB

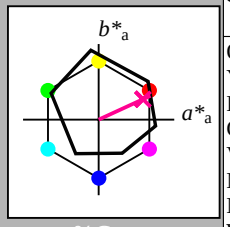
BAM registration: 20060101-RE40/10Q/Q40E06FP.PS/.PDF
application for evaluation and measurement of printer or monitor systems
BAM material: code=rha4ta
/RE40/ Form: 7/10, Serie: 1/1, Page: 7 Page: count: 7

## Input: Colorimetric Offset Reflective System ORS18

**for hue *h** = *lab*h* = 25/360 = 0.069**
***lab*tch* and *lab*nch***

**A: hue R**
**LCH*Ma: 48 75 25**
**olv*Ma: 1.0 0.0 0.32**

**triangle lightness**




**%Gamut**
**u*rel = 93**

**ORS18; adapted (a) CIELAB data**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.39 | 50.52 | 82.63 | 38 |
| $Y_{Ma}$ | 90.37 | −10.26 | 91.75 | 92.32 | 96 |
| $L_{Ma}$ | 50.9 | −62.83 | 34.96 | 71.91 | 151 |
| $C_{Ma}$ | 58.62 | −30.34 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.72 | 31.1 | −44.4 | 54.22 | 305 |
| $M_{Ma}$ | 48.13 | 75.28 | −8.36 | 75.74 | 354 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.66 | 26.98 | 64.57 | 25 |
| $J_{CIE}$ | 81.26 | −2.16 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.25 | 11.76 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.86 | 271 |

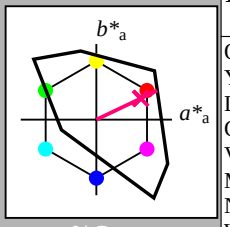
**%Regularity**
**g*H,rel = 57**
**g*C,rel = 59**

## Output: Colorimetric Television Luminous System TLS00

**for hue *h** = *lab*h* = 25/360 = 0.071**
***lab*tch* and *lab*nch***

**A: hue R**
**LCH*Ma: 52 89 25**
**olv*Ma: 1.0 0.0 0.21**

**triangle lightness**

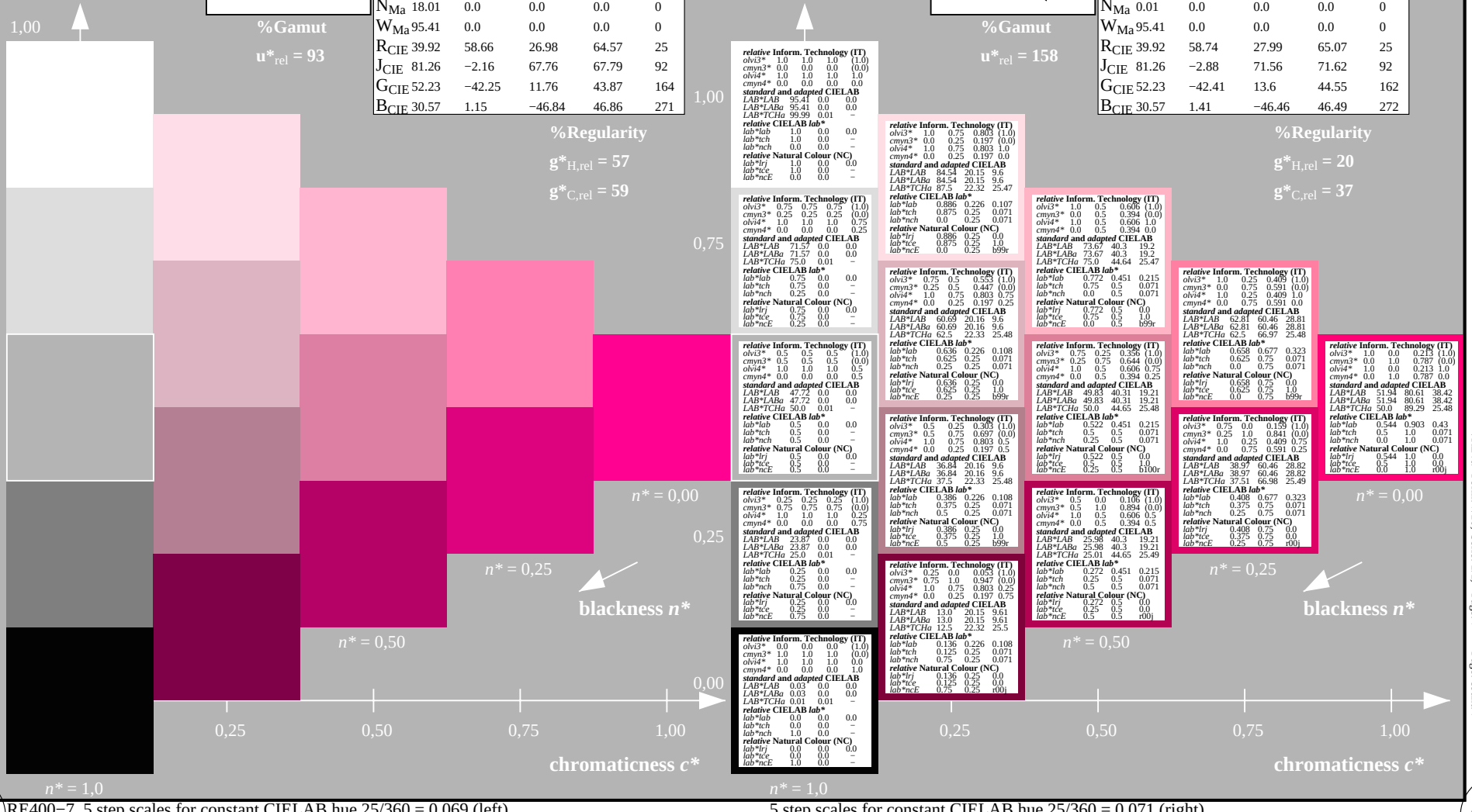



**%Gamut**
**u*rel = 158**

**TLS00; adapted (a) CIELAB data**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 50.5 | 76.92 | 64.55 | 100.42 | 40 |
| $Y_{Ma}$ | 92.66 | −20.69 | 90.75 | 93.08 | 103 |
| $L_{Ma}$ | 83.63 | −82.75 | 79.9 | 115.04 | 136 |
| $C_{Ma}$ | 86.88 | −46.16 | −13.55 | 48.12 | 196 |
| $V_{Ma}$ | 30.39 | 76.06 | −103.59 | 128.52 | 306 |
| $M_{Ma}$ | 57.3 | 94.35 | −58.41 | 110.97 | 328 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 27.99 | 65.07 | 25 |
| $J_{CIE}$ | 81.26 | −2.88 | 71.56 | 71.62 | 92 |
| $G_{CIE}$ | 52.23 | −42.41 | 13.6 | 44.55 | 162 |
| $B_{CIE}$ | 30.57 | 1.41 | −46.46 | 46.49 | 272 |

**%Regularity**
**g*H,rel = 20**
**g*C,rel = 37**




RE400−7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

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

BAM-test chart RE40; Colorimetric systems ORS18 & TLS00
A: 5 step colour scales and coordinate data for 10 hues

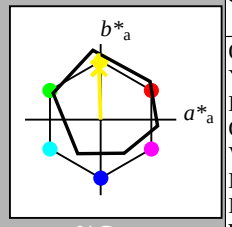
input: *olv* setrgbcolor*
output: *olv* setrgbcolor / w* setgray*

## Input: Colorimetric Offset Reflective System ORS18

**for hue *h** = *lab*h* = 92/360 = 0.255**
***lab*tch* and *lab*nch***

**A: hue J**
**LCH*Ma: 86 88 92**
**olv*Ma: 1.0 0.9 0.0**

**triangle lightness**




**%Gamut**
**u*rel = 93**

**ORS18; adapted (a) CIELAB data**

| | L*=L*a | a*a | b*a | C*ab,a | h*ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.39 | 50.52 | 82.63 | 38 |
| $Y_{Ma}$ | 90.37 | −10.26 | 91.75 | 92.32 | 96 |
| $L_{Ma}$ | 50.9 | −62.83 | 34.96 | 71.91 | 151 |
| $C_{Ma}$ | 58.62 | −30.34 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.72 | 31.1 | −44.4 | 54.22 | 305 |
| $M_{Ma}$ | 48.13 | 75.28 | −8.36 | 75.74 | 354 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.66 | 26.98 | 64.57 | 25 |
| $J_{CIE}$ | 81.26 | −2.16 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.25 | 11.76 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.86 | 271 |

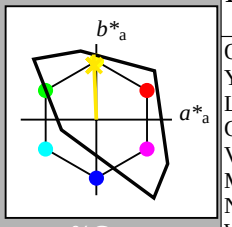
**%Regularity**
**g*H,rel = 57**
**g*C,rel = 59**

## Output: Colorimetric Television Luminous System TLS00

**for hue *h** = *lab*h* = 92/360 = 0.256**
***lab*tch* and *lab*nch***

**A: hue J**
**LCH*Ma: 85 86 92**
**olv*Ma: 1.0 0.82 0.0**

**triangle lightness**

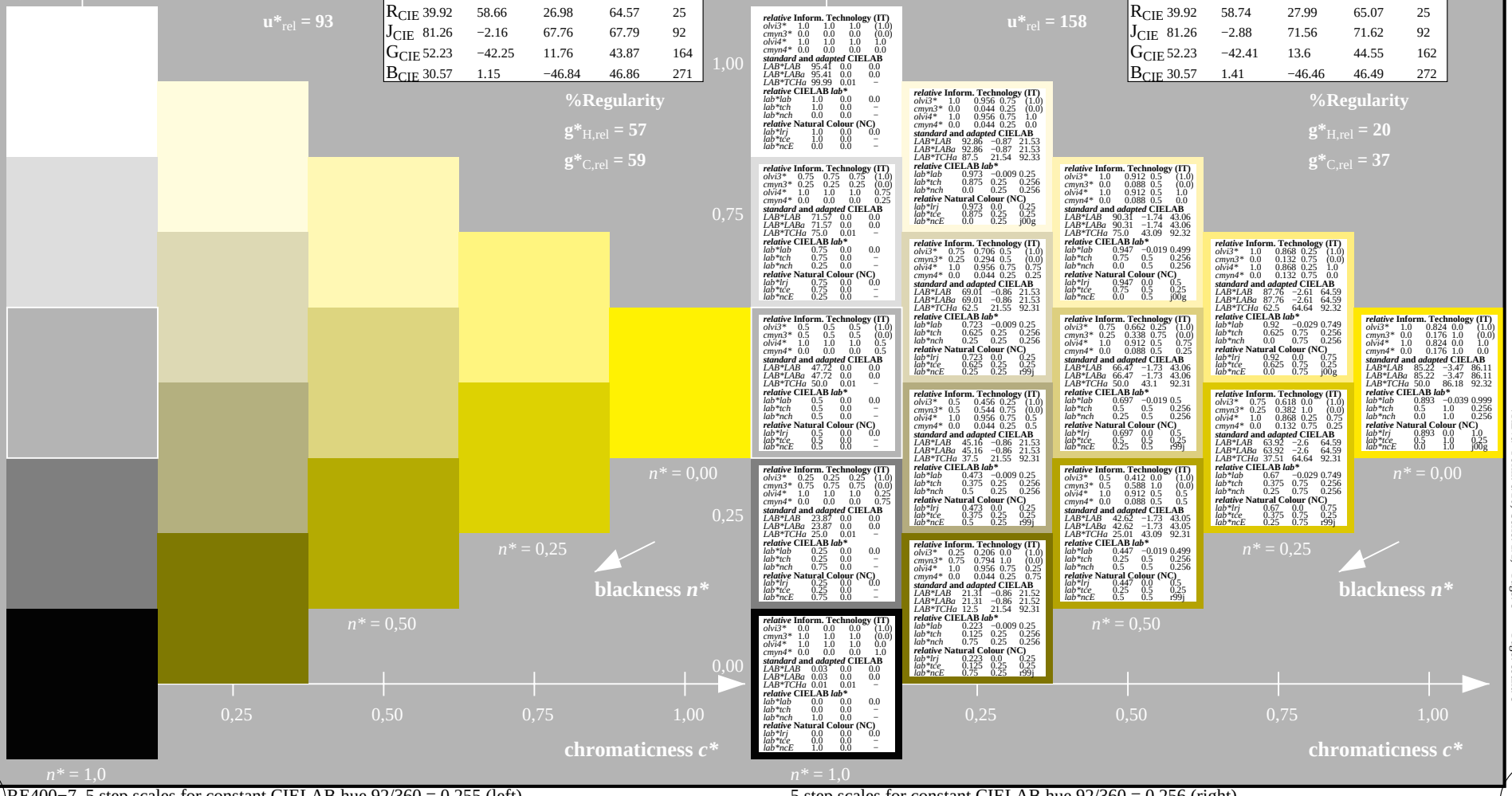



**%Gamut**
**u*rel = 158**

**TLS00; adapted (a) CIELAB data**

| | L*=L*a | a*a | b*a | C*ab,a | h*ab,a |
|---|---|---|---|---|---|
| $O_{Ma}$ | 50.5 | 76.92 | 64.55 | 100.42 | 40 |
| $Y_{Ma}$ | 92.66 | −20.69 | 90.75 | 93.08 | 103 |
| $L_{Ma}$ | 83.63 | −82.75 | 79.9 | 115.04 | 136 |
| $C_{Ma}$ | 86.88 | −46.16 | −13.55 | 48.12 | 196 |
| $V_{Ma}$ | 30.39 | 76.06 | −103.59 | 128.52 | 306 |
| $M_{Ma}$ | 57.3 | 94.35 | −58.41 | 110.97 | 328 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 27.99 | 65.07 | 25 |
| $J_{CIE}$ | 81.26 | −2.88 | 71.56 | 71.62 | 92 |
| $G_{CIE}$ | 52.23 | −42.41 | 13.6 | 44.55 | 162 |
| $B_{CIE}$ | 30.57 | 1.41 | −46.46 | 46.49 | 272 |

**%Regularity**
**g*H,rel = 20**
**g*C,rel = 37**




RE400−7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)

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

BAM-test chart RE40; Colorimetric systems ORS18 & TLS00
A: 5 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *olv* setrgbcolor / w* setgray*

See for similar files: http://www.ps.bam.de/RE40/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1, CIELAB

BAM registration: 20060101-RE40/10Q/Q40E07FP.PS/.PDF
application for evaluation and measurement of printer or monitor systems

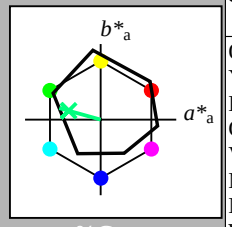
BAM material: code=rha4ta

## Input: Colorimetric Offset Reflective System ORS18

**for hue *h** = *lab*h* = 164/360 = 0.457**
***lab*tch* and *lab*nch***

**A: hue G**
**LCH*Ma: 53 57 164**
**olv*Ma: 0.0 1.0 0.25**

**triangle lightness**

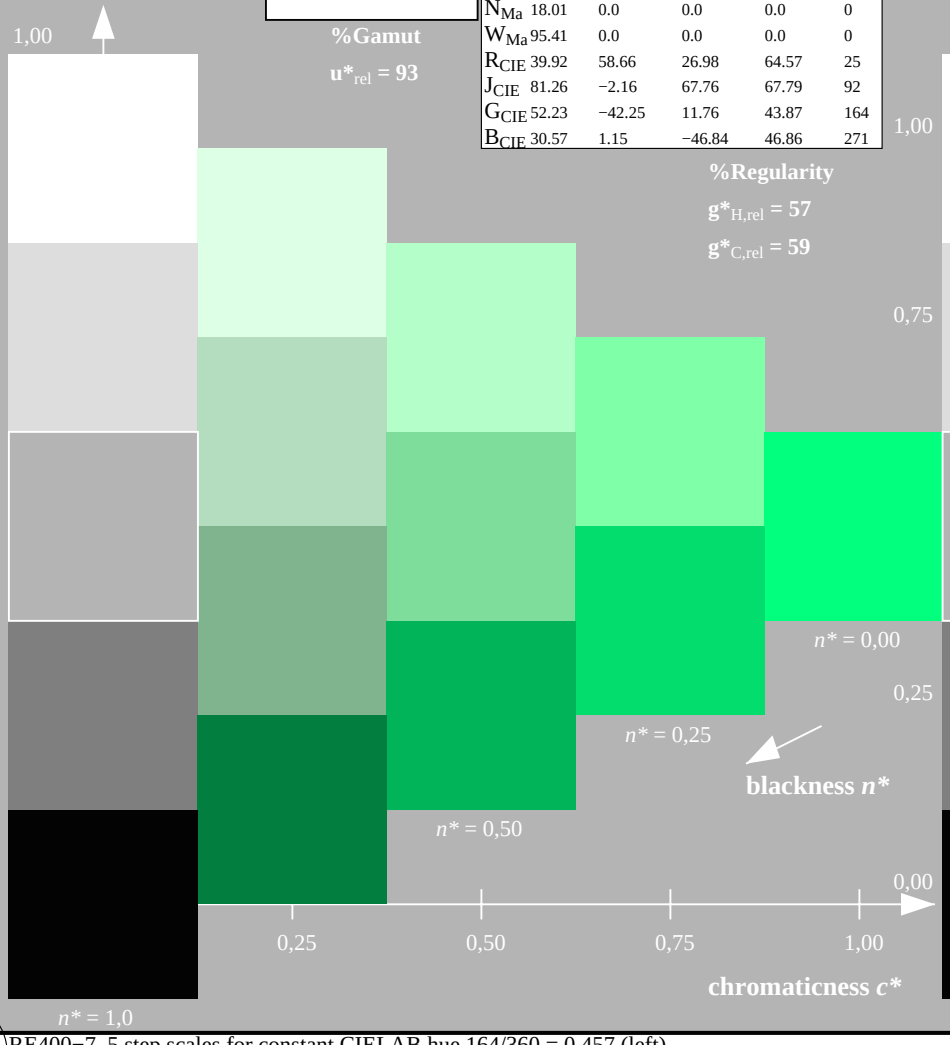



**%Gamut**
**u*rel = 93**

**ORS18; adapted (a) CIELAB data**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.39 | 50.52 | 82.63 | 38 |
| $Y_{Ma}$ | 90.37 | −10.26 | 91.75 | 92.32 | 96 |
| $L_{Ma}$ | 50.9 | −62.83 | 34.96 | 71.91 | 151 |
| $C_{Ma}$ | 58.62 | −30.34 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.72 | 31.1 | −44.4 | 54.22 | 305 |
| $M_{Ma}$ | 48.13 | 75.28 | −8.36 | 75.74 | 354 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.66 | 26.98 | 64.57 | 25 |
| $J_{CIE}$ | 81.26 | −2.16 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.25 | 11.76 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.86 | 271 |

**%Regularity**
**g*H,rel = 57**
**g*C,rel = 59**

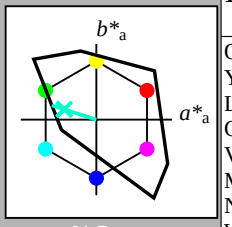



## Output: Colorimetric Television Luminous System TLS00

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

**A: hue G**
**LCH*Ma: 86 62 162**
**olv*Ma: 0.0 1.0 0.65**

**triangle lightness**

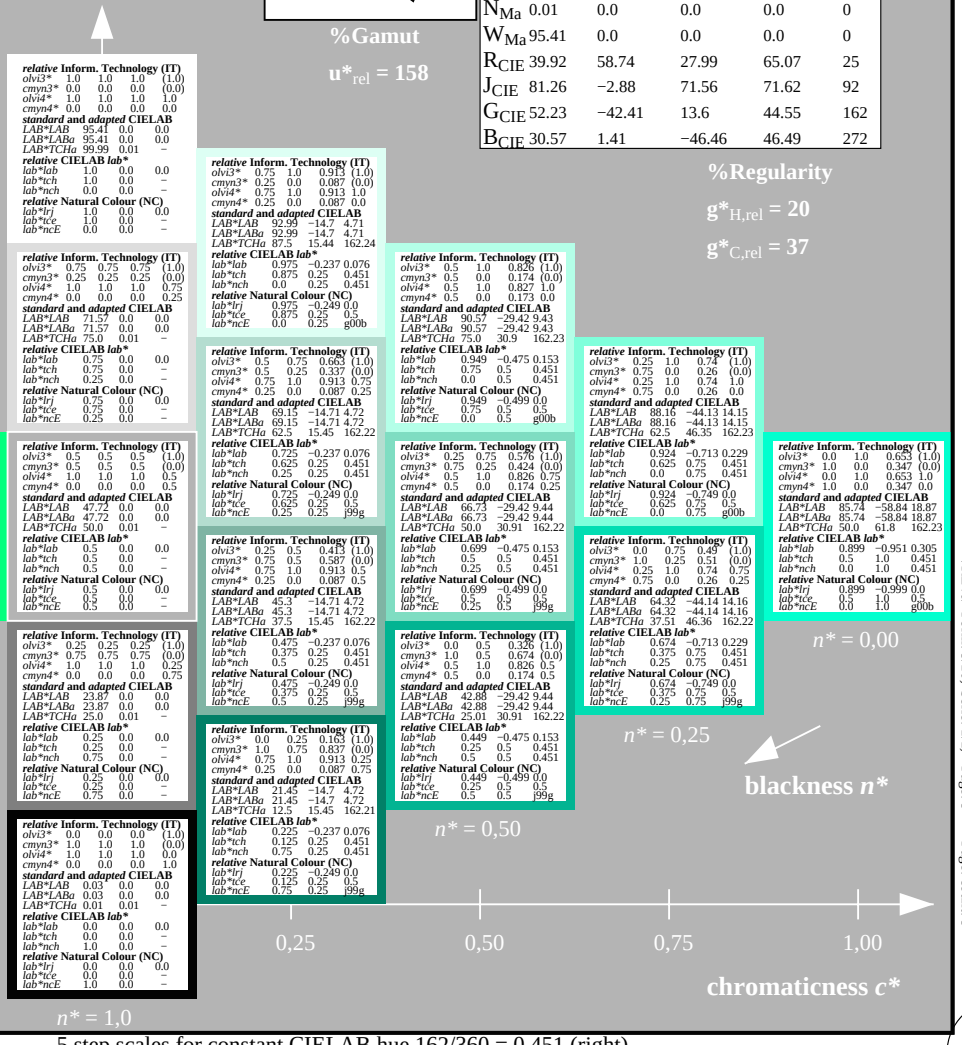



**%Gamut**
**u*rel = 158**

**TLS00; adapted (a) CIELAB data**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 50.5 | 76.92 | 64.55 | 100.42 | 40 |
| $Y_{Ma}$ | 92.66 | −20.69 | 90.75 | 93.08 | 103 |
| $L_{Ma}$ | 83.63 | −82.75 | 79.9 | 115.04 | 136 |
| $C_{Ma}$ | 86.88 | −46.16 | −13.55 | 48.12 | 196 |
| $V_{Ma}$ | 30.39 | 76.06 | −103.59 | 128.52 | 306 |
| $M_{Ma}$ | 57.3 | 94.35 | −58.41 | 110.97 | 328 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 27.99 | 65.07 | 25 |
| $J_{CIE}$ | 81.26 | −2.88 | 71.56 | 71.62 | 92 |
| $G_{CIE}$ | 52.23 | −42.41 | 13.6 | 44.55 | 162 |
| $B_{CIE}$ | 30.57 | 1.41 | −46.46 | 46.49 | 272 |

**%Regularity**
**g*H,rel = 20**
**g*C,rel = 37**




RE400−7, 5 step scales for constant CIELAB hue 164/360 = 0.457 (left)

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

BAM-test chart RE40; Colorimetric systems ORS18 & TLS00
A: 5 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *olv* setrgbcolor / w* setgray*

See for similar files: http://www.ps.bam.de/RE40/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1, CIELAB

BAM registration: 20060101-RE40/10Q/Q40E08FP.PS/.PDF
application for evaluation and measurement of printer or monitor systems

BAM material: code=rha4ta

/RE40/ Form: 9/10, Serie: 1/1, Page: 9 Page: count: 9

See for similar files: http://www.ps.bam.de/RE40/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1, CIELAB

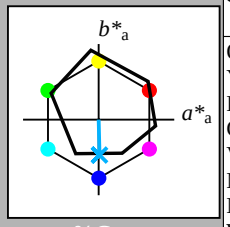
BAM registration: 20060101-RE40/10Q/Q40E09FP.PS/.PDF
application for evaluation and measurement of printer or monitor systems
BAM material: code=rha4ta
/RE40/ Form: 10/10,Serie: 1/1, Page: 10 Page: count: 10

## Input: Colorimetric Offset Reflective System ORS18

**for hue *h** = *lab*h* = 271/360 = 0.754**
***lab*tch* and *lab*nch***

**A: hue B**
**LCH*Ma: 42 45 271**
**olv*Ma: 0.0 0.49 1.0**

**triangle lightness**




**%Gamut**
**u*rel = 93**

**ORS18; adapted (a) CIELAB data**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 65.39 | 50.52 | 82.63 | 38 |
| $Y_{Ma}$ | 90.37 | −10.26 | 91.75 | 92.32 | 96 |
| $L_{Ma}$ | 50.9 | −62.83 | 34.96 | 71.91 | 151 |
| $C_{Ma}$ | 58.62 | −30.34 | −45.01 | 54.3 | 236 |
| $V_{Ma}$ | 25.72 | 31.1 | −44.4 | 54.22 | 305 |
| $M_{Ma}$ | 48.13 | 75.28 | −8.36 | 75.74 | 354 |
| $N_{Ma}$ | 18.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.66 | 26.98 | 64.57 | 25 |
| $J_{CIE}$ | 81.26 | −2.16 | 67.76 | 67.79 | 92 |
| $G_{CIE}$ | 52.23 | −42.25 | 11.76 | 43.87 | 164 |
| $B_{CIE}$ | 30.57 | 1.15 | −46.84 | 46.86 | 271 |

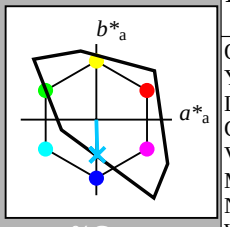
**%Regularity**
**g*H,rel = 57**
**g*C,rel = 59**

## Output: Colorimetric Television Luminous System TLS00

**for hue *h** = *lab*h* = 272/360 = 0.755**
***lab*tch* and *lab*nch***

**A: hue B**
**LCH*Ma: 65 49 272**
**olv*Ma: 0.0 0.61 1.0**

**triangle lightness**

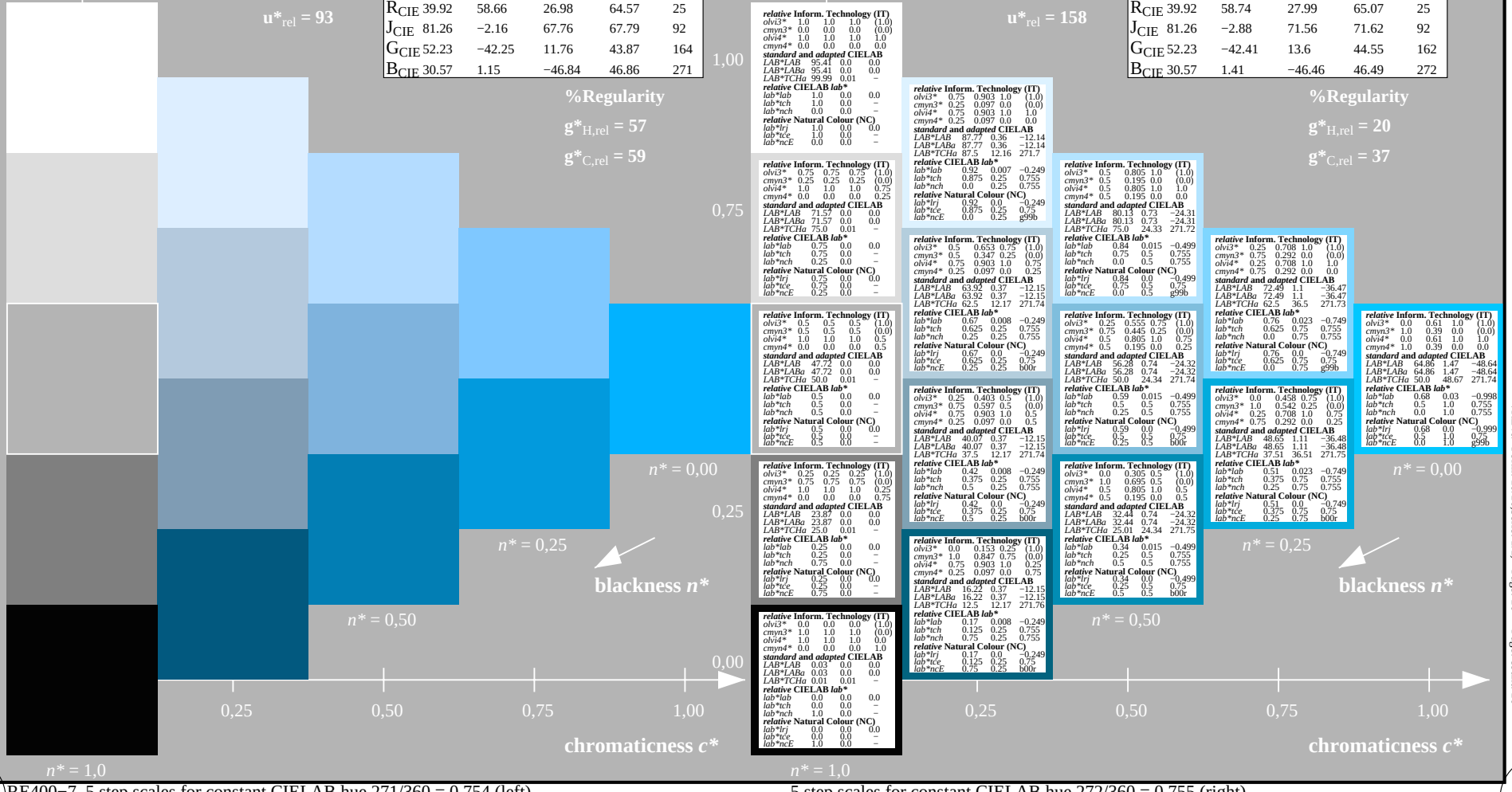



**%Gamut**
**u*rel = 158**

**TLS00; adapted (a) CIELAB data**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 50.5 | 76.92 | 64.55 | 100.42 | 40 |
| $Y_{Ma}$ | 92.66 | −20.69 | 90.75 | 93.08 | 103 |
| $L_{Ma}$ | 83.63 | −82.75 | 79.9 | 115.04 | 136 |
| $C_{Ma}$ | 86.88 | −46.16 | −13.55 | 48.12 | 196 |
| $V_{Ma}$ | 30.39 | 76.06 | −103.59 | 128.52 | 306 |
| $M_{Ma}$ | 57.3 | 94.35 | −58.41 | 110.97 | 328 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 39.92 | 58.74 | 27.99 | 65.07 | 25 |
| $J_{CIE}$ | 81.26 | −2.88 | 71.56 | 71.62 | 92 |
| $G_{CIE}$ | 52.23 | −42.41 | 13.6 | 44.55 | 162 |
| $B_{CIE}$ | 30.57 | 1.41 | −46.46 | 46.49 | 272 |

**%Regularity**
**g*H,rel = 20**
**g*C,rel = 37**




RE400−7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

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

BAM-test chart RE40; Colorimetric systems ORS18 & TLS00
A: 5 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *olv* setrgbcolor / w* setgray*