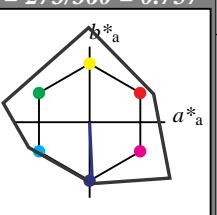


**Eingabe: Farbmétrisches Reflexions-System NCS11**für Bunton $h^* = lab^*h = 273/360 = 0.757$
 lab^*tch und lab^*nch **D65: Bunton B****LCH*Ma: 49 81 273****olv*Ma: 0.0 0.0 1.0****Dreiecks-Helligkeit t^*** relative Inform. Technology (IT)
 $olv13^*$ 1.0 1.0 1.0 (1.0) $cmy3^*$ 0.0 0.0 0.0 (0.0) $olv4^*$ 1.0 1.0 1.0 1.0 $cmy4^*$ 0.0 0.0 0.0 0.0

standard and adapted CIELAB

 LAB^*LAB 95.41 0.0 -0.01 LAB^*LAb 95.41 0.0 0.0 LAB^*TCh 99.99 0.01 -relative CIELAB lab^* lab^*lab 1.0 0.0 0.0 lab^*tch 1.0 0.0 - lab^*nch 0.0 0.0 -

relative Natural Colour (NC)

 lab^*lrij 1.0 0.0 0.0 lab^*ice 1.0 0.0 - lab^*nCE 0.0 0.0 -relative Inform. Technology (IT)
 $olv13^*$ 0.5 0.5 0.5 (1.0) $cmy3^*$ 0.5 0.5 0.5 (0.0) $olv4^*$ 0.5 0.5 1.0 1.0 $cmy4^*$ 0.5 0.5 0.0 0.0

standard and adapted CIELAB

 LAB^*LAB 72.21 1.85 -40.58 LAB^*LAb 72.21 1.82 -40.58 LAB^*TCh 75.0 40.63 272.57relative CIELAB lab^* lab^*lab 0.725 0.022 -0.498 lab^*tch 0.75 0.5 0.757 lab^*nch 0.0 0.5 0.757

relative Natural Colour (NC)

 lab^*lrij 0.725 0.006 -0.499 lab^*ice 0.75 0.5 0.752 lab^*nCE 0.0 0.5 b00rrelative Inform. Technology (IT)
 $olv13^*$ 0.0 0.0 0.5 (1.0) $cmy3^*$ 1.0 1.0 1.0 (0.0) $olv4^*$ 0.5 0.5 1.0 0.5 $cmy4^*$ 0.5 0.5 0.0 0.5

standard and adapted CIELAB

 LAB^*LAB 30.01 1.89 -40.56 LAB^*LAb 30.01 1.82 -40.58 LAB^*TCh 25.01 40.63 272.57relative CIELAB lab^* lab^*lab 0.225 0.022 -0.498 lab^*tch 0.25 0.5 0.757 lab^*nch 0.5 0.5 0.757

relative Natural Colour (NC)

 lab^*lrij 0.225 0.006 -0.499 lab^*ice 0.25 0.5 0.752 lab^*nCE 0.5 0.5 b00rrelative Inform. Technology (IT)
 $olv13^*$ 0.0 0.0 0.0 (1.0) $cmy3^*$ 1.0 1.0 1.0 (0.0) $olv4^*$ 1.0 1.0 1.0 0.0 $cmy4^*$ 0.0 0.0 0.0 1.0

standard and adapted CIELAB

 LAB^*LAB 11.01 0.07 0.01 LAB^*LAb 11.01 0.0 0.0 LAB^*TCh 0.01 0.01 -relative CIELAB lab^* lab^*lab 0.0 0.0 0.0 lab^*tch 0.0 0.0 - lab^*nch 1.0 0.0 -

relative Natural Colour (NC)

 lab^*lrij 0.0 0.0 0.0 lab^*ice 0.0 0.0 - lab^*nCE 1.0 0.0 - $n^* = 1,0$ **NCS11; adaptierte CIELAB-Daten** $L^*=L^*_a \quad a^*_a \quad b^*_a \quad C^*_{ab,a} \quad h^*_{ab,a}$

	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	

 $n^* = 0,00$  $n^* = 0,50$  $n^* = 1,00$ relative Buntheit c^* **Ausgabe: Farbmétrisches Reflexions-System MRS18**für Bunton $h^* = lab^*h = 290/360 = 0.806$
 lab^*tch und lab^*nch **D65: Bunton B****LCH*Ma: 37 67 290****olv*Ma: 0.0 0.0 1.0****Dreiecks-Helligkeit t^*** relative Inform. Technology (IT)
 $olv13^*$ 1.0 1.0 1.0 (1.0) $cmy3^*$ 0.0 0.0 0.0 (0.0) $olv4^*$ 1.0 1.0 1.0 1.0 $cmy4^*$ 0.0 0.0 0.0 0.0

standard and adapted CIELAB

 LAB^*LAB 95.41 -0.97 4.75 LAB^*LAb 95.41 0.0 0.0 LAB^*TCh 99.99 0.01 -relative CIELAB lab^* lab^*lab 1.0 0.0 0.0 lab^*tch 1.0 0.0 - lab^*nch 0.0 0.0 -

relative Natural Colour (NC)

 lab^*lrij 1.0 0.0 0.0 lab^*ice 1.0 0.0 - lab^*nCE 0.0 0.0 -relative Inform. Technology (IT)
 $olv13^*$ 0.5 0.5 0.5 (1.0) $cmy3^*$ 0.5 0.5 0.5 (0.0) $olv4^*$ 1.0 1.0 1.0 0.5 $cmy4^*$ 0.0 0.0 0.0 0.5

standard and adapted CIELAB

 LAB^*LAB 66.03 11.17 -28.74 LAB^*LAb 66.03 11.59 -31.51 LAB^*TCh 75.0 33.59 290.19relative CIELAB lab^* lab^*lab 0.62 0.173 -0.468 lab^*tch 0.75 0.5 0.806 lab^*nch 0.0 0.5 0.806

relative Natural Colour (NC)

 lab^*lrij 0.62 0.129 -0.482 lab^*ice 0.75 0.5 0.791 lab^*nCE 0.0 0.5 b16rrelative Inform. Technology (IT)
 $olv13^*$ 0.0 0.0 0.5 (1.0) $cmy3^*$ 1.0 1.0 1.0 (0.0) $olv4^*$ 0.5 0.5 1.0 0.5 $cmy4^*$ 0.5 0.5 0.0 0.5

standard and adapted CIELAB

 LAB^*LAB 18.02 0.5 -0.46 LAB^*LAb 18.02 0.0 0.0 LAB^*TCh 0.01 0.01 -relative CIELAB lab^* lab^*lab 0.0 0.0 0.0 lab^*tch 0.0 0.0 - lab^*nch 1.0 0.0 -

relative Natural Colour (NC)

 lab^*lrij 0.0 0.0 0.0 lab^*ice 0.0 0.0 - lab^*nCE 1.0 0.0 - $n^* = 1,0$  $n^* = 0,50$  $n^* = 0,00$ **MRS18; adaptierte CIELAB-Daten** $L^*=L^*_a \quad a^*_a \quad b^*_a \quad C^*_{ab,a} \quad h^*_{ab,a}$

	RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94	
GMa	52.11	-69.73	9.44	70.37	172	
G50BMa	45.03	-36.57	-28.47	46.36	218	
BMa	36.65	23.19	-63.05	67.18	290	
B50RMa	34.94	57.17	-44.26	72.31	322	
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	

relative Inform. Technology (IT)
 $olv13^*$ 1.0 1.0 1.0 (1.0) $cmy3^*$ 0.0 0.0 0.0 (0.0) $olv4^*$ 1.0 1.0 1.0 1.0 $cmy4^*$ 0.0 0.0 0.0 0.0

standard and adapted CIELAB

 LAB^*LAB 36.65 23.33 -62.24 LAB^*LAb 36.65 23.18 -63.03 LAB^*TCh 50.0 67.17 290.19relative CIELAB lab^* lab^*lab 0.241 0.345 -0.937 lab^*tch 0.5 1.0 0.806 lab^*nch 0.0 1.0 0.806

relative Natural Colour (NC)

 lab^*lrij 0.241 0.257 -0.965 lab^*ice 0.5 1.0 0.791 lab^*nCE 0.0 1.0 b16r $n^* = 0,00$  $n^* = 0,50$  $n^* = 1,00$ relative Buntheit c^*

C

M

Y

L

V

-8

-6



UG180-7, 3 stufige Reihen für konstanten CIELAB Bunnton 273/360 = 0.757 (links)

C M Y L V



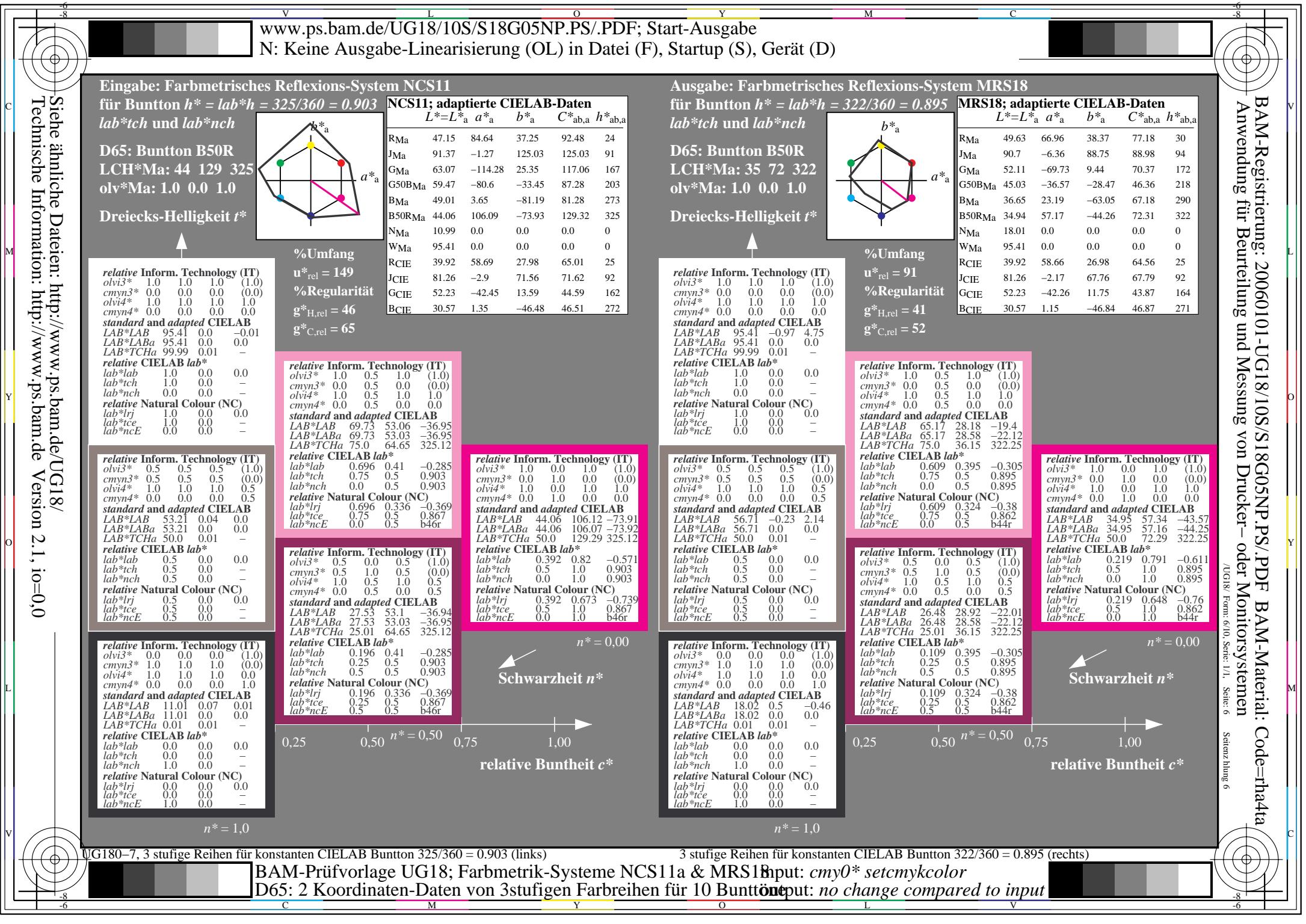
3 stufige Reihen für konstanten CIELAB Bunnton 290/360 = 0.806 (rechts)

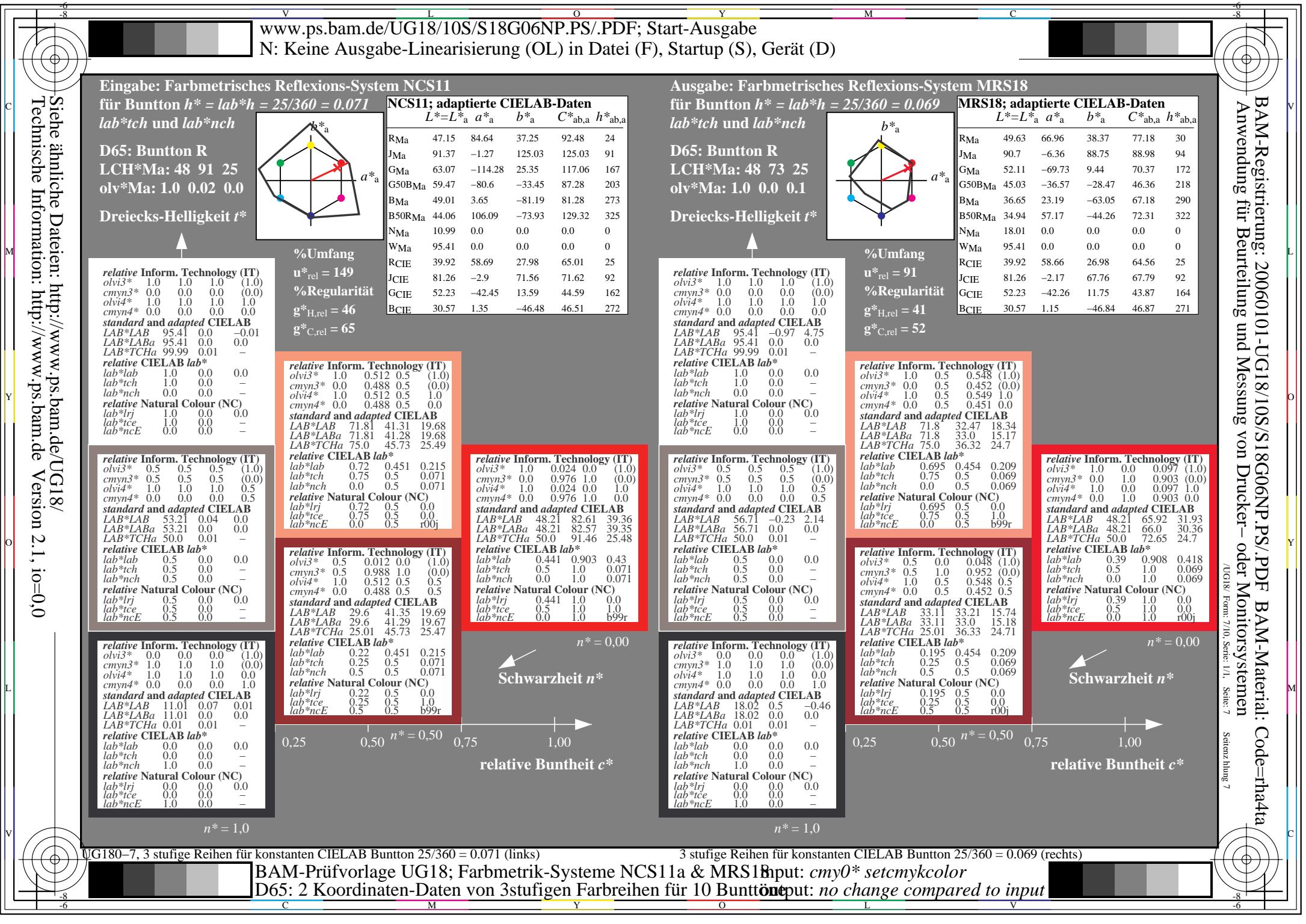
C M Y L V

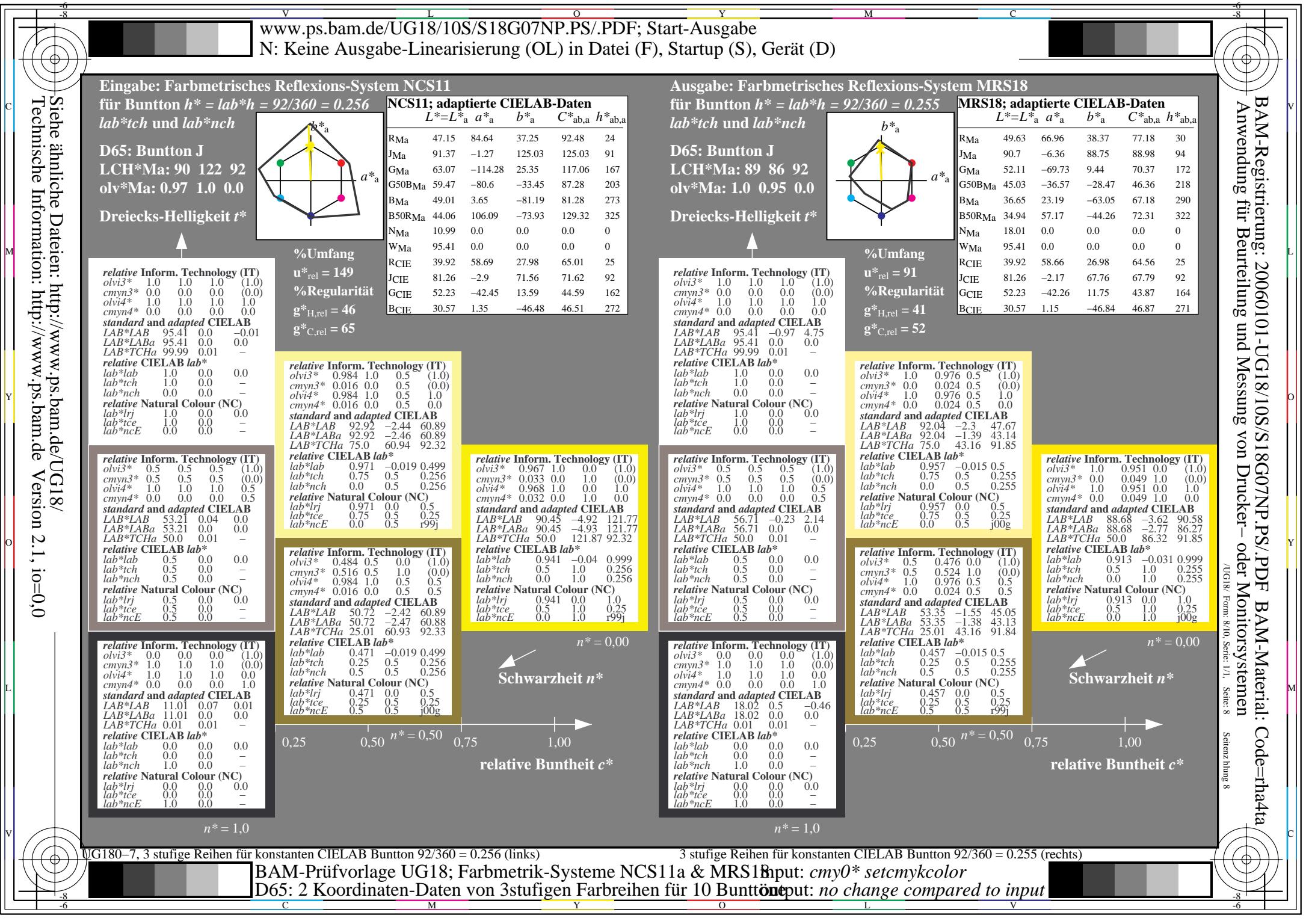
BAM-Prüfvorlage UG18; Farbmétik-Systeme NCS11a & MRS18 Input: $cmy0^* setcmykcolor$

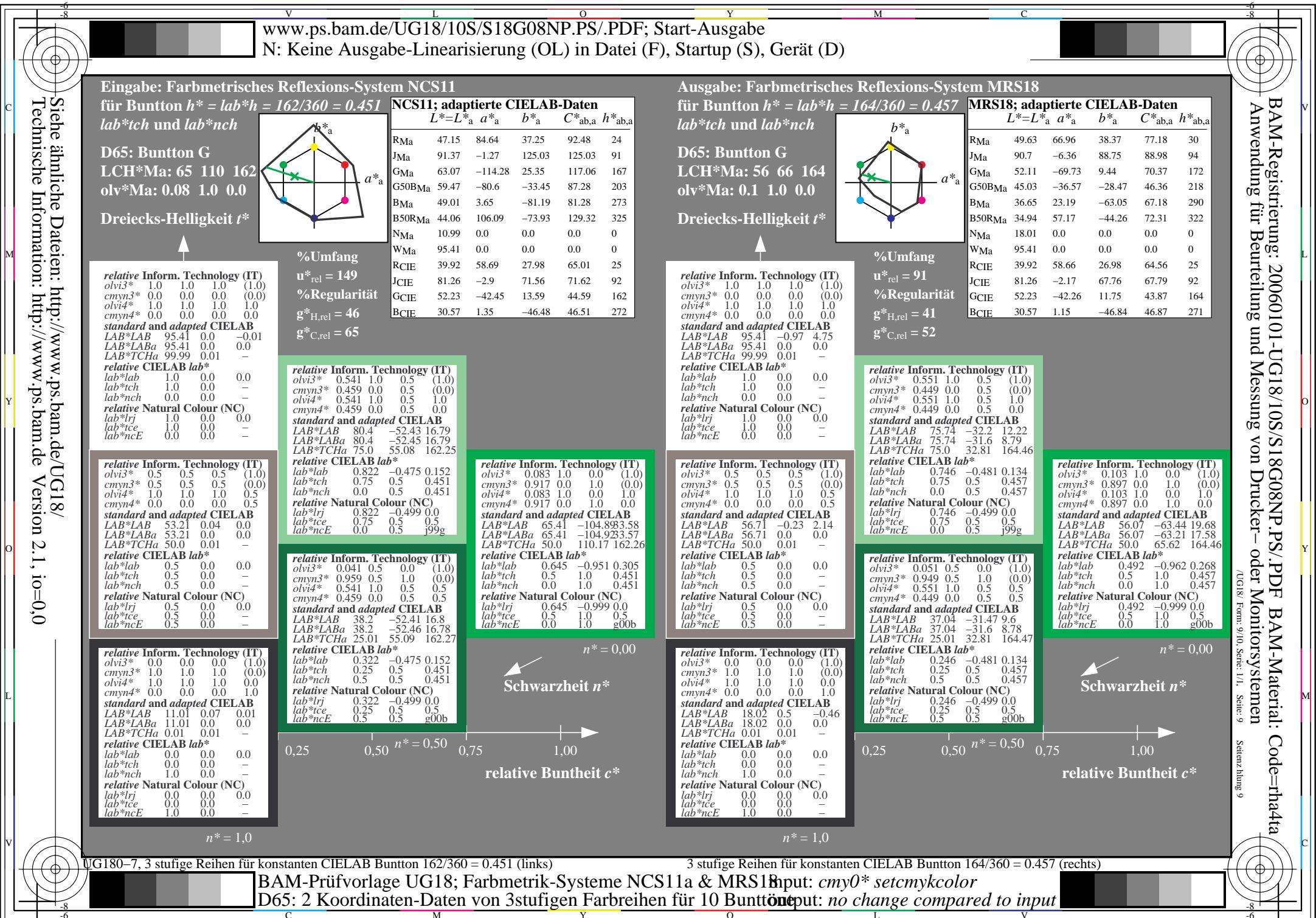
D65: 2 Koordinaten-Daten von 3stufigen Farbreihen für 10 Bunntöne Input: no change compared to input

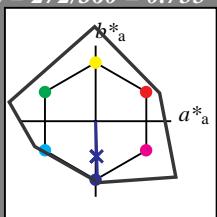
C M Y L V









**Eingabe: Farbmétrisches Reflexions-System NCS11**für Bunton $h^* = lab^*h = 272/360 = 0.755$
 lab^*tch und lab^*nch **D65: Bunton B****LCH*Ma: 49 80 272****olv*Ma: 0.0 0.02 1.0****Dreiecks-Helligkeit t^***

relative Inform. Technology (IT)
 $olv^3* 1.0 \quad 1.0 \quad 1.0 \quad (1.0)$
 $cmy^3* 0.0 \quad 0.0 \quad 0.0 \quad (0.0)$
 $olv^4* 1.0 \quad 1.0 \quad 1.0 \quad 1.0$
 $cmy^4* 0.0 \quad 0.0 \quad 0.0 \quad 0.0$

standard and adapted CIELAB
 $LAB^*LAB \quad 95.41 \quad 0.0 \quad -0.01$
 $LAB^*LABa \quad 95.41 \quad 0.0 \quad 0.0$
 $LAB^*TChA \quad 99.99 \quad 0.01 \quad -$

relative CIELAB lab*
 $lab^*lab \quad 1.0 \quad 0.0 \quad 0.0$
 $lab^*tch \quad 1.0 \quad 0.0 \quad -$
 $lab^*nch \quad 0.0 \quad 0.0 \quad -$

relative Natural Colour (NC)
 $lab^*lrij \quad 1.0 \quad 0.0 \quad 0.0$
 $lab^*ice \quad 1.0 \quad 0.0 \quad -$
 $lab^*nCE \quad 0.0 \quad 0.0 \quad -$

relative Inform. Technology (IT)
 $olv^3* 0.5 \quad 0.5 \quad 0.5 \quad (1.0)$
 $cmy^3* 0.5 \quad 0.5 \quad 0.5 \quad (0.0)$
 $olv^4* 1.0 \quad 1.0 \quad 1.0 \quad 0.5$
 $cmy^4* 0.0 \quad 0.0 \quad 0.0 \quad 0.5$

standard and adapted CIELAB
 $LAB^*LAB \quad 53.21 \quad 0.04 \quad 0.0$
 $LAB^*LABa \quad 53.21 \quad 0.0 \quad 0.0$
 $LAB^*TChA \quad 50.0 \quad 0.01 \quad -$

relative CIELAB lab*
 $lab^*lab \quad 0.5 \quad 0.0 \quad 0.0$
 $lab^*tch \quad 0.5 \quad 0.0 \quad -$
 $lab^*nch \quad 0.5 \quad 0.0 \quad -$

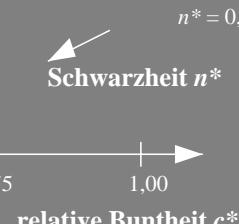
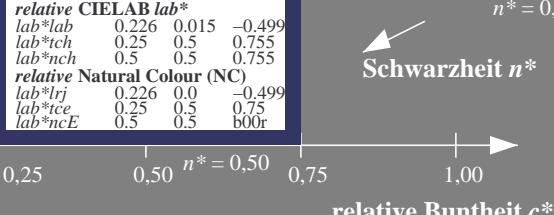
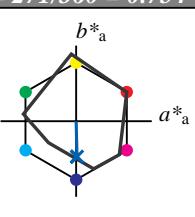
relative Natural Colour (NC)
 $lab^*lrij \quad 0.5 \quad 0.0 \quad 0.0$
 $lab^*ice \quad 0.5 \quad 0.0 \quad -$
 $lab^*nCE \quad 0.5 \quad 0.0 \quad -$

relative Inform. Technology (IT)
 $olv^3* 0.0 \quad 0.0 \quad 0.0 \quad (1.0)$
 $cmy^3* 1.0 \quad 1.0 \quad 1.0 \quad (0.0)$
 $olv^4* 1.0 \quad 1.0 \quad 1.0 \quad 0.0$
 $cmy^4* 0.0 \quad 0.0 \quad 0.0 \quad 1.0$

standard and adapted CIELAB
 $LAB^*LAB \quad 11.01 \quad 0.07 \quad 0.01$
 $LAB^*LABa \quad 11.01 \quad 0.0 \quad 0.0$
 $LAB^*TChA \quad 0.01 \quad 0.01 \quad -$

relative CIELAB lab*
 $lab^*lab \quad 0.0 \quad 0.0 \quad 0.0$
 $lab^*tch \quad 0.0 \quad 0.0 \quad -$
 $lab^*nch \quad 1.0 \quad 0.0 \quad -$

relative Natural Colour (NC)
 $lab^*lrij \quad 0.0 \quad 0.0 \quad 0.0$
 $lab^*ice \quad 0.0 \quad 0.0 \quad -$
 $lab^*nCE \quad 1.0 \quad 0.0 \quad -$

 $n^* = 1,0$ **Ausgabe: Farbmétrisches Reflexions-System MRS18**für Bunton $h^* = lab^*h = 271/360 = 0.754$
 lab^*tch und lab^*nch **D65: Bunton B****LCH*Ma: 40 50 271****olv*Ma: 0.0 0.37 1.0****Dreiecks-Helligkeit t^***

relative Inform. Technology (IT)
 $olv^3* 1.0 \quad 1.0 \quad 1.0 \quad (1.0)$
 $cmy^3* 0.0 \quad 0.0 \quad 0.0 \quad (0.0)$
 $olv^4* 1.0 \quad 1.0 \quad 1.0 \quad 1.0$
 $cmy^4* 0.0 \quad 0.0 \quad 0.0 \quad 0.0$

standard and adapted CIELAB
 $LAB^*LAB \quad 95.41 \quad -0.97 \quad 4.75$
 $LAB^*LABa \quad 95.41 \quad 0.0 \quad 0.0$
 $LAB^*TChA \quad 99.99 \quad 0.01 \quad -$

relative CIELAB lab*
 $lab^*lab \quad 1.0 \quad 0.0 \quad 0.0$
 $lab^*tch \quad 1.0 \quad 0.0 \quad -$
 $lab^*nch \quad 0.0 \quad 0.0 \quad -$

relative Natural Colour (NC)
 $lab^*lrij \quad 1.0 \quad 0.0 \quad 0.0$
 $lab^*ice \quad 1.0 \quad 0.0 \quad -$
 $lab^*nCE \quad 0.0 \quad 0.0 \quad -$

relative Inform. Technology (IT)
 $olv^3* 0.5 \quad 0.684 \quad 1.0 \quad (1.0)$
 $cmy^3* 0.5 \quad 0.316 \quad 0.0 \quad (0.0)$
 $olv^4* 0.5 \quad 0.684 \quad 1.0 \quad 1.0$
 $cmy^4* 0.5 \quad 0.316 \quad 0.0 \quad 0.0$

standard and adapted CIELAB
 $LAB^*LAB \quad 67.57 \quad 0.17 \quad -22.28$
 $LAB^*LABa \quad 67.57 \quad 0.61 \quad -25.16$
 $LAB^*TChA \quad 75.0 \quad 25.18 \quad 271.4$

relative CIELAB lab*
 $lab^*lab \quad 0.64 \quad 0.012 \quad -0.499$
 $lab^*tch \quad 0.75 \quad 0.5 \quad 0.754$
 $lab^*nch \quad 0.0 \quad 0.5 \quad 0.754$

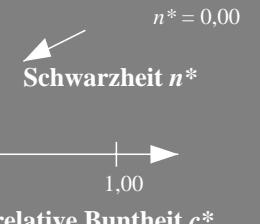
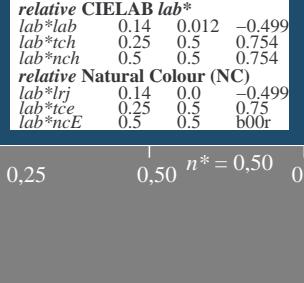
relative Natural Colour (NC)
 $lab^*lrij \quad 0.64 \quad 0.0 \quad -0.499$
 $lab^*ice \quad 0.75 \quad 0.5 \quad 0.75$
 $lab^*nCE \quad 0.0 \quad 0.5 \quad g99b$

relative Inform. Technology (IT)
 $olv^3* 0.5 \quad 0.5 \quad 0.5 \quad (1.0)$
 $cmy^3* 0.5 \quad 0.5 \quad 0.5 \quad (0.0)$
 $olv^4* 1.0 \quad 1.0 \quad 1.0 \quad 0.5$
 $cmy^4* 0.0 \quad 0.0 \quad 0.0 \quad 0.5$

standard and adapted CIELAB
 $LAB^*LAB \quad 49.18 \quad 2.39 \quad -80.42$
 $LAB^*LABa \quad 49.18 \quad 2.34 \quad -80.43$
 $LAB^*TChA \quad 50.0 \quad 80.48 \quad 271.67$

relative CIELAB lab*
 $lab^*lab \quad 0.452 \quad 0.029 \quad -0.998$
 $lab^*tch \quad 0.5 \quad 1.0 \quad 0.755$
 $lab^*nch \quad 0.0 \quad 1.0 \quad 0.755$

relative Natural Colour (NC)
 $lab^*lrij \quad 0.452 \quad 0.0 \quad -0.999$
 $lab^*ice \quad 0.5 \quad 1.0 \quad 0.75$
 $lab^*nCE \quad 0.0 \quad 1.0 \quad b00r$

 $n^* = 1,0$ 

3stufige Reihen für konstanten CIELAB Bunton 271/360 = 0.754 (rechts)

BAM-Prüfvorlage UG18; Farbmétrik-Systeme NCS11a & MRS18 Input: $cmy0* setcmykcolor$

D65: 2 Koordinaten-Daten von 3stufigen Farbreihen für 10 Bunntöne Output: no change compared to input

