see similar files of the whole serie: http://farbe.li.tu-berlin.de/heas.htm
technical information: http://farbe.li.tu-berlin.de or http://color.li.tu-berlin.de

TUB registration: 20240901-hea3/hea3l0np.pdf /.ps
application for evaluation and measurement of display or print output
TUB material: code=hha4ta

Three, 5 and 9 colour steps for visual evaluation

0, 125, 250, 375, 500, 625, 750, 875, 1000
Black N00w − Black N16w = White W

$L^*_{TUBLOG,U}=[50/\log(5)]\ \log(Y/Y_U)+50,\ Y_N=4,\ Y_U=20,\ Y_W=100$

N00w	N08w	N16w	N00w	N04w	N08w	N12w	N16w	N00w	N02w	N04w	N06w	N08w	N10w	N12w	N14w	N16w
0	50?	100	0	25?	50?	75?	100	0	12?	25?	37?	50?	62?	75?	87?	100

Three, 5 and 9 colour steps, numeric specification

0,00	0, . .	1,00	0,00	0, . .	1,00	0, . .	1,00	0,00	0, . .	1,00	0, . .	0,00	0, . .	1,00	0, . .	1,00
	e08			e04	0,00	e48			e02	0,00	e24	1,00	e46	0,00	e68	

Three, 5 and 9 colour steps, numeric calculation

0,00	e08=0,50	1,00	0,00	e04=0,50	1,00		e48=0,50	1,00	0,00	e02=0,50	1,00		c24=0,50	0,00	e46=0,50	1,00		e68=0,50	1,00
0,00	a1=e08	1,00	0,00	b1=e04*a1	0,00	b2=a1	b3=e48*a1	1,00	0,00	c1=e02*b1	0,00	c2=b1	c3=e24*b1	1,00	c5=e46*b3	0,00	c6=b3	c7=e68*b3	1,00

Three, 5 and 9 colour steps, numeric calculation example

0,00	0,50	1,00	0,00	0,50	1,00		0,50	1,00	0,00	0,50	1,00		0,50	0,00	0,50	1,00		0,50	1,00
0,00	0,50	1,00	0,00	0,25	0,00	0,50	0,75	1,00	0,00	0,12	0,00	0,25	0,37	1,00	0,62	0,00	0,75	0,87	1,00

Three, 5 and 9 colour steps, produced visual linearization

0, 125, 250, 375, 500, 625, 750, 875, 1000

$L^*_{TUBLOG,U}=[50/\log(5)]\ \log(Y/Y_U)+50,\ Y_N=4,\ Y_U=20,\ Y_W=100$

N00w	N08w	N16w	N00w	N04w	N08w	N12w	N16w	N00w	N02w	N04w	N06w	N08w	N10w	N12w	N14w	N16w
0	50	100	0	25	50	75	100	0	12	25	37	50	62	75	87	100

hea30-7n, Test samples: 3, 5 and 9 colour steps, greu=0,500, expu=1,000, expa=1,000

TUB-test chart hea3; Adjacent grey samples for visual intervall scaling, evaluation of the series N−W with 3, 5 and 9 steps, output $(rgb^*)^{1,0}$ & $[(rgb^*)^{1,0}]^{1,0}$; surround mean Grey U=N08w