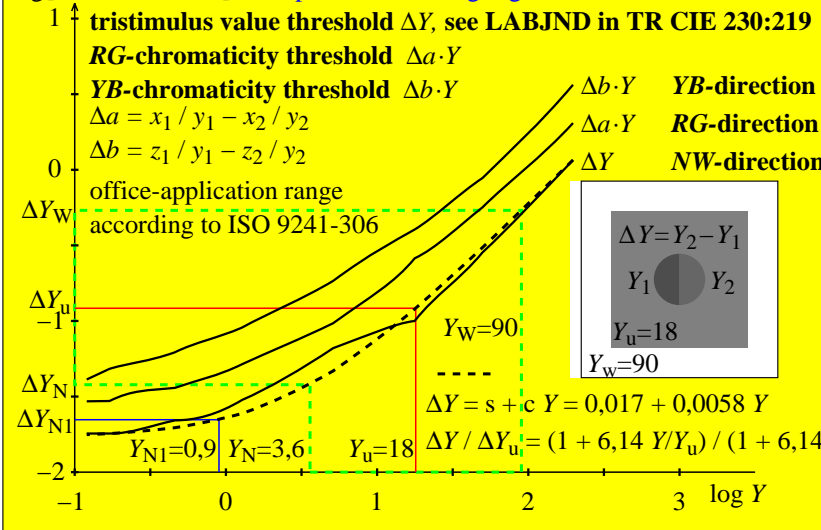


NW-achromatic, and RG- and YB-chromatic thresholds as function of Y

experiments and data: BAM-research report no. 115 (1985), page 72, see [log\[ΔY, Δa·Y, Δb·Y\]](https://nbn-resolving.org/urn:nbn:de:kobv:b43-3350) <https://nbn-resolving.org/urn:nbn:de:kobv:b43-3350>



eea10-3n, eej10-7n

Equal 9 step grey scaling between $L^*_{0aN} = 22,3$ and $L^*_{0aW} = 96,0$, $Y_{0ref} = 90,0$, normalisation: grey U

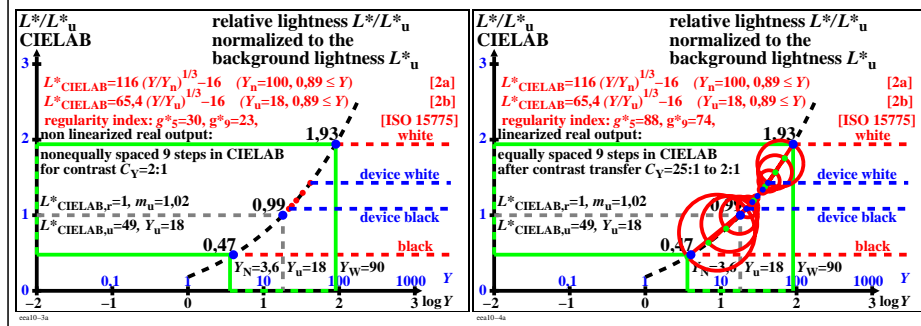
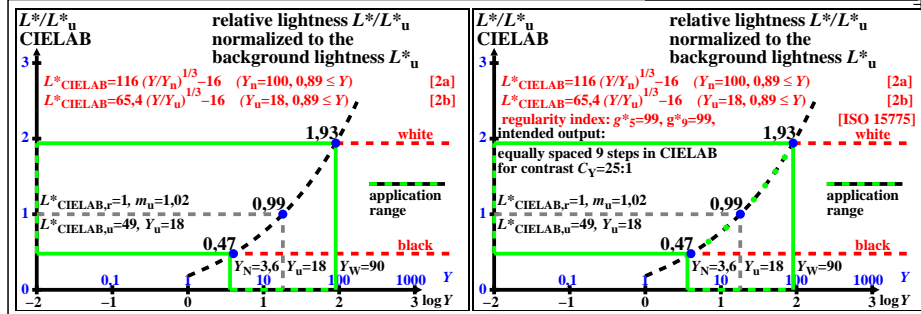
$L^*_{0aN} = 22,3$, $L^*_{0aU} = 59,1$, $L^*_{0aW} = 96,0$, $Y_{0aN} = 3,6$, $Y_{0aU} = 27,2$, $Y_{0aW} = 90,0$, $C_{0aY} = Y_{0aW} : Y_{0aN} = 25,0$
 $L^*_{iN} = 53,7$, $L^*_{iAU} = 59,1$, $L^*_{iAW} = 70,7$, $Y_{iAN} = 21,7$, $Y_{iAU} = 27,2$, $Y_{iAW} = 41,8$, $C_{iAY} = Y_{iAW} : Y_{iAN} = 1,9$
regularity index according to ISO/IEC 15775:2022, Annex G for 5 and 9 steps
 $g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$

L*	n0.i	$g^*_5 = 99, g^*_9 = 99$ intended output				$g^*_5 = 30, g^*_9 = 23$ real output				$g^*_5 = 88, g^*_9 = 74$ linearized output			
		L^*_{0a}	L^*_{0r}	Y_{0a}	Y_{0r}	L^*_{ta}	ΔL^*_{ta}	L^*_{tr}	Y_{ta}	$(L^*_{tr})^{1/1,6}$	L^*_{la}	ΔL^*_{la}	
100	9	96.0	1.0	90.0	1.0		1.0	41.8	1.0	70.7	2.2		
8	8	86.8	0.875	69.6	0.763	3.4	0.799	37.0	0.869	68.5	2.2		
75	7	77.6	0.75	52.5	0.566	3.1	0.617	33.1	0.74	66.3	2.1		
6	6	68.4	0.625	38.5	0.403	2.7	0.457	29.8	0.613	64.1	2.1		
50	5	59.1	0.5	27.2	0.273	2.3	0.319	27.2	0.49	62.0	2.0		
4	4	49.9	0.375	18.4	0.171	1.9	0.205	25.1	0.372	60.0	1.9		
3	3	40.7	0.25	11.7	0.094	1.5	0.115	23.6	0.259	58.1	1.9		
2	2	31.5	0.125	6.9	0.038	1.1	0.047	22.5	0.148	56.2	1.9		
25	1	22.3	0.0	3.6	0.0	0.8	0.0	21.7	0.0	53.7	2.5		

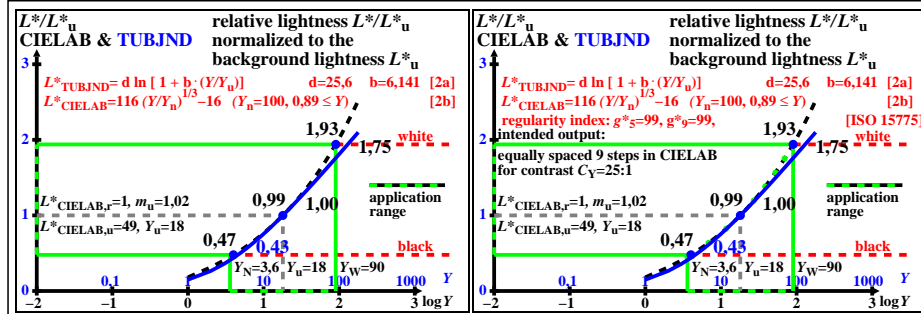
$\Delta L^*_{ta} = 9.2$ (i=1,2,...,9) **normalisation: $Y_{iAU} = Y_{0aU} \frac{Y_{0ai} + Y_{0ref}}{Y_{0aU} + Y_{0ref}}$**

eea10-7n, eef10-7n

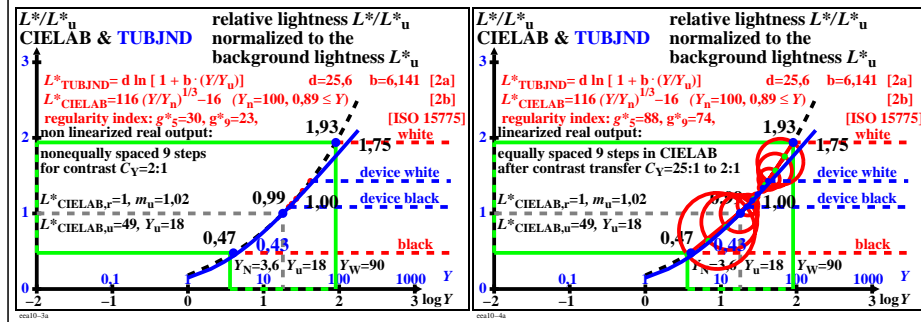
TUB-test chart eea1; Grey scaling an regulatory index g^* ; line elements of colourimetry
 Comparison of scaling, threshold, and contrast functions for different applications



eea11-5n, eea40-5n



eea10-1a



eea11-7n, eef20-3n