

Technische Information: <http://farbe.li.tu-berlin.de/igds.htm> oder <http://color.li.tu-berlin.de>

TUB-Registrierung: 2025/2021-igd6/igd6l0n1.txt / ps Anwendung für Breittellung und Messung von Display- oder Druck-Ausgabe

9stufige Grauskalierung zwischen  $L^*_{0aN}=-71$  &  $L^*_{0aW}=71.5$ ,  $Y_{0ref}=2$ , Normierung Weiß W

$L^*_{0aN}=-71.4$ ,  $L^*_{0aU}=0.0$ ,  $L^*_{0aW}=71.5$ ,  $Y_{0aN}=2.0$ ,  $Y_{0aU}=20.0$ ,  $Y_{0aW}=200.0$ ,  $C_{0aY}=Y_{0aW}:Y_{0aN}=100.0$   
 $L^*_{1aN}=-37.9$ ,  $L^*_{1aU}=5.0$ ,  $L^*_{1aW}=71.5$ ,  $Y_{1aN}=5.9$ ,  $Y_{1aU}=23.5$ ,  $Y_{1aW}=200.0$ ,  $C_{1aY}=Y_{1aW}:Y_{1aN}=34.0$

Reguläritätsindex nach ISO/IEC 15775:2022, Anhang G für 5 und 9 Stufen  
 $g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$ ,  $L^*_{TUBLOG,Ua} = 50 / \log(S) [\log (Y/Ya)]$  mit  $Y_a=20$   
 $g^*_5 = 100$ ,  $g^*_9 = 99$   $g^*_5 = 48$ ,  $g^*_9 = 41$   $g^*_5 = 96$ ,  $g^*_9 = 89$

L*	angestrebte Ausgabe					reale Ausgabe					linearisierte Ausgabe				
	$n0_i$	$L^*_{0a}$	$L^*_{0r}$	$Y_{0a}$	$Y_{0r}$	$L^*_{1a}$	$\Delta L^*_{1a}$	$L^*_{1r}$	$Y_{1a}$	$(L^*_{1r})^{1/1.34}$	$L^*_{1a}$	$\Delta L^*_{1a}$	$L^*_{1a}$	$\Delta L^*_{1a}$	
70	9	71.5	1.0	200.0	1.0	71.5	17.4	0.841	114.2	0.879	58.2	13.3	71.5	17.4	
35	7	53.6	0.875	112.5	0.558	54.1	17.1	0.685	65.9	0.754	44.6	14.0	53.6	17.1	
	6	35.8	0.75	63.2	0.309	37.0	16.5	0.535	38.8	0.626	30.6	14.0	35.8	16.5	
0	5	17.9	0.625	35.6	0.169	20.6	15.5	0.393	23.5	0.498	16.5	14.1	17.9	15.5	
	4	0.0	0.5	20.0	0.091	5.0	14.1	0.264	14.9	0.37	2.5	14.1	0.0	14.1	
-35	3	-17.8	0.375	11.2	0.047	-9.0	12.1	0.154	10.1	0.247	-10.9	12.8	-17.8	12.1	
	2	-35.7	0.25	6.3	0.022	-21.1	9.7	0.065	7.4	0.13	-23.6	12.8	-35.7	9.7	
-70	1	-53.6	0.125	3.5	0.008	-30.8	7.2	0.006	5.9	0.0	-37.9	14.3	-53.6	7.2	
	0	-71.4	0.0	2.0	0.0	-37.9	0	0.0	5.9	0.0	-37.9	14.3	-71.4	0	

$\Delta L^*_{0a}=17.9$  (i=1,2,...,8) Normierung:  $Y_{1aU}=Y_{0aW}$   $Y_{0aU}+Y_{0ref}$  /  $Y_{0aW}+Y_{0ref}$

9stufige Grauskalierung zwischen  $L^*_{0aN}=-71$  &  $L^*_{0aW}=71.5$ ,  $Y_{0ref}=200$ , Normierung Weiß W

$L^*_{0aN}=-71.4$ ,  $L^*_{0aU}=0.0$ ,  $L^*_{0aW}=71.5$ ,  $Y_{0aN}=2.0$ ,  $Y_{0aU}=20.0$ ,  $Y_{0aW}=200.0$ ,  $C_{0aY}=Y_{0aW}:Y_{0aN}=100.0$   
 $L^*_{1aN}=-50.2$ ,  $L^*_{1aU}=2.6$ ,  $L^*_{1aW}=71.5$ ,  $Y_{1aN}=4.0$ ,  $Y_{1aU}=21.8$ ,  $Y_{1aW}=200.0$ ,  $C_{1aY}=Y_{1aW}:Y_{1aN}=50.5$

Reguläritätsindex nach ISO/IEC 15775:2022, Anhang G für 5 und 9 Stufen  
 $g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$ ,  $L^*_{TUBLOG,Ua} = 50 / \log(S) [\log (Y/Ya)]$  mit  $Y_a=20$   
 $g^*_5 = 100$ ,  $g^*_9 = 99$   $g^*_5 = 64$ ,  $g^*_9 = 57$   $g^*_5 = 97$ ,  $g^*_9 = 94$

L*	angestrebte Ausgabe					reale Ausgabe					linearisierte Ausgabe				
	$n0_i$	$L^*_{0a}$	$L^*_{0r}$	$Y_{0a}$	$Y_{0r}$	$L^*_{1a}$	$\Delta L^*_{1a}$	$L^*_{1r}$	$Y_{1a}$	$(L^*_{1r})^{1/1.2}$	$L^*_{1a}$	$\Delta L^*_{1a}$	$L^*_{1a}$	$\Delta L^*_{1a}$	
70	9	71.5	1.0	200.0	1.0	71.5	17.6	0.855	113.3	0.878	56.6	14.9	71.5	17.6	
35	7	53.6	0.875	112.5	0.558	53.9	17.5	0.712	64.6	0.753	41.4	15.2	53.6	17.5	
	6	35.8	0.75	63.2	0.309	36.4	17.1	0.571	37.2	0.627	26.0	15.5	35.8	17.1	
0	5	17.9	0.625	35.6	0.169	19.3	16.6	0.435	21.8	0.499	10.5	15.5	17.9	16.6	
	4	0.0	0.5	20.0	0.091	2.6	15.7	0.305	13.1	0.372	-4.9	15.2	0.0	15.7	
-35	3	-17.8	0.375	11.2	0.047	-13.0	14.4	0.187	8.2	0.247	-20.1	14.7	-17.8	14.4	
	2	-35.7	0.25	6.3	0.022	-27.4	12.5	0.084	5.5	0.126	-34.8	14.7	-35.7	12.5	
-70	1	-53.6	0.125	3.5	0.008	-40.0	10.2	0.006	4.0	0.0	-50.2	15.4	-53.6	10.2	
	0	-71.4	0.0	2.0	0.0	-50.2	0	0.0	4.0	0.0	-50.2	15.4	-71.4	0	

$\Delta L^*_{0a}=17.9$  (i=1,2,...,8) Normierung:  $Y_{1aU}=Y_{0aW}$   $Y_{0aU}+Y_{0ref}$  /  $Y_{0aW}+Y_{0ref}$

9stufige Grauskalierung zwischen  $L^*_{0aN}=-71$  &  $L^*_{0aW}=71.5$ ,  $Y_{0ref}=1$ , Normierung Weiß W

$L^*_{0aN}=-71.4$ ,  $L^*_{0aU}=0.0$ ,  $L^*_{0aW}=71.5$ ,  $Y_{0aN}=2.0$ ,  $Y_{0aU}=20.0$ ,  $Y_{0aW}=200.0$ ,  $C_{0aY}=Y_{0aW}:Y_{0aN}=100.0$   
 $L^*_{1aN}=-59.0$ ,  $L^*_{1aU}=1.4$ ,  $L^*_{1aW}=71.5$ ,  $Y_{1aN}=3.0$ ,  $Y_{1aU}=20.9$ ,  $Y_{1aW}=200.0$ ,  $C_{1aY}=Y_{1aW}:Y_{1aN}=67.0$

Reguläritätsindex nach ISO/IEC 15775:2022, Anhang G für 5 und 9 Stufen  
 $g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$ ,  $L^*_{TUBLOG,Ua} = 50 / \log(S) [\log (Y/Ya)]$  mit  $Y_a=20$   
 $g^*_5 = 100$ ,  $g^*_9 = 99$   $g^*_5 = 78$ ,  $g^*_9 = 73$   $g^*_5 = 98$ ,  $g^*_9 = 96$

L*	angestrebte Ausgabe					reale Ausgabe					linearisierte Ausgabe				
	$n0_i$	$L^*_{0a}$	$L^*_{0r}$	$Y_{0a}$	$Y_{0r}$	$L^*_{1a}$	$\Delta L^*_{1a}$	$L^*_{1r}$	$Y_{1a}$	$(L^*_{1r})^{1/1.11}$	$L^*_{1a}$	$\Delta L^*_{1a}$	$L^*_{1a}$	$\Delta L^*_{1a}$	
70	9	71.5	1.0	200.0	1.0	71.5	17.8	0.864	112.9	0.877	55.4	16.1	71.5	17.8	
35	7	53.6	0.875	112.5	0.558	53.8	17.7	0.729	63.9	0.752	39.1	16.3	53.6	17.7	
	6	35.8	0.75	63.2	0.309	36.1	17.5	0.595	36.4	0.626	22.7	16.4	35.8	17.5	
0	5	17.9	0.625	35.6	0.169	18.6	17.2	0.463	20.9	0.5	6.2	16.5	17.9	17.2	
	4	0.0	0.5	20.0	0.091	1.4	16.7	0.334	12.2	0.373	-10.3	16.4	0.0	16.7	
-35	3	-17.8	0.375	11.2	0.047	-15.3	16.0	0.212	7.3	0.248	-26.6	16.0	-17.8	16.0	
	2	-35.7	0.25	6.3	0.022	-31.3	14.7	0.099	4.5	0.125	-42.7	16.0	-35.7	14.7	
-70	1	-53.6	0.125	3.5	0.008	-46.0	13.0	0.006	3.0	0.0	-59.0	16.3	-53.6	13.0	
	0	-71.4	0.0	2.0	0.0	-59.0	0	0.0	3.0	0.0	-59.0	16.3	-71.4	0	

$\Delta L^*_{0a}=17.9$  (i=1,2,...,8) Normierung:  $Y_{1aU}=Y_{0aW}$   $Y_{0aU}+Y_{0ref}$  /  $Y_{0aW}+Y_{0ref}$

9stufige Grauskalierung zwischen  $L^*_{0aN}=-71$  &  $L^*_{0aW}=71.5$ ,  $Y_{0ref}=200$ , Normierung Weiß W

$L^*_{0aN}=-71.4$ ,  $L^*_{0aU}=0.0$ ,  $L^*_{0aW}=71.5$ ,  $Y_{0aN}=2.0$ ,  $Y_{0aU}=20.0$ ,  $Y_{0aW}=200.0$ ,  $C_{0aY}=Y_{0aW}:Y_{0aN}=100.0$   
 $L^*_{1aN}=-50.3$ ,  $L^*_{1aU}=53.0$ ,  $L^*_{1aW}=71.5$ ,  $Y_{1aN}=101.0$ ,  $Y_{1aU}=110.0$ ,  $Y_{1aW}=200.0$ ,  $C_{1aY}=Y_{1aW}:Y_{1aN}=2.0$

Reguläritätsindex nach ISO/IEC 15775:2022, Anhang G für 5 und 9 Stufen  
 $g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$ ,  $L^*_{TUBLOG,Ua} = 50 / \log(S) [\log (Y/Ya)]$  mit  $Y_a=20$   
 $g^*_5 = 100$ ,  $g^*_9 = 99$   $g^*_5 = 5$ ,  $g^*_9 = 3$   $g^*_5 = 64$ ,  $g^*_9 = 44$

L*	angestrebte Ausgabe					reale Ausgabe					linearisierte Ausgabe				
	$n0_i$	$L^*_{0a}$	$L^*_{0r}$	$Y_{0a}$	$Y_{0r}$	$L^*_{1a}$	$\Delta L^*_{1a}$	$L^*_{1r}$	$Y_{1a}$	$(L^*_{1r})^{1/2.75}$	$L^*_{1a}$	$\Delta L^*_{1a}$	$L^*_{1a}$	$\Delta L^*_{1a}$	
70	9	71.5	1.0	200.0	1.0	71.5	7.7	0.638	156.2	0.849	68.3	3.2	71.5	7.7	
35	7	53.6	0.875	112.5	0.558	63.9	5.3	0.388	131.6	0.708	65.3	3.0	53.6	5.3	
	6	35.8	0.75	63.2	0.309	58.5	3.4	0.225	117.8	0.581	62.6	2.7	35.8	3.4	
0	5	17.9	0.625	35.6	0.169	55.1	2.1	0.125	110.0	0.469	60.3	2.4	17.9	2.1	
	4	0.0	0.5	20.0	0.091	53.0	1.3	0.065	105.6	0.371	58.2	2.1	0.0	1.3	
-35	3	-17.8	0.375	11.2	0.047	51.7	0.7	0.031	103.2	0.283	56.3	1.8	-17.8	0.7	
	2	-35.7	0.25	6.3	0.022	51.0	0.4	0.011	101.8	0.196	54.5	1.8	-35.7	0.4	
-70	1	-53.6	0.125	3.5	0.008	50.5	0.2	0.006	101.0	0.0	50.3	1.8	-53.6	0.2	
	0	-71.4	0.0	2.0	0.0	50.3	0	0.0	101.0	0.0	50.3	1.8	-71.4	0	

$\Delta L^*_{0a}=17.9$  (i=1,2,...,8) Normierung:  $Y_{1aU}=Y_{0aW}$   $Y_{0aU}+Y_{0ref}$  /  $Y_{0aW}+Y_{0ref}$

