$R_2(\lambda) = \log[R(\lambda)/0,20] = \log[R_1(\lambda)]$ reflection	$R_2(\lambda) = \log[R(\lambda)/0,20] = \log[R_1(\lambda)]$ reflection
device red R_d λ_d =596nm	device yellow Y _d λ _d =570nm
$0.70 - 1.000R(\lambda)$ triangle lightness t^* : 100,0	$0.70 - 1.000R(\lambda)$ triangle lightness t^* : 100,0
0,35 - 0,282 R ⁺ 60,07	0,35 - 0.282 Y ⁺ 60,07
0,00 51,84	0,00
0,141 R ⁻ 44,37	0,141 Y ⁻ 44,37
-0.35 $\lambda_{1}=$	-0.35 $\lambda_{1}=$
0.040 567 23.67	0,040 493
$-0.70\frac{10000}{400}$ 500 600 700	$-0.701 \frac{13030}{400}$ 500 600 700
wavelength λ/nm contrast C=2:1	wavelength λ /nm contrast C=2:1
$R_2(\lambda) = \log[R(\lambda)/0,20] = \log[R_1(\lambda)]$ reflection	$R_2(\lambda) = \log[R(\lambda)/0.20] = \log[R_1(\lambda)]$ reflection
device green G_d $\lambda_d = 535$ nm	device cyan-blue $C_{\mathbf{d}}$ $\lambda_{\mathbf{d}}$ =489nm
$0.70 + 1.000R(\lambda)$ triangle lightness t^* : 100,0	$0.70 + \frac{1,000R}{\lambda}$ triangle lightness t^* : 100,0
trange ignites : 100,0	0,70 Hoose (70)
0,35	0,35
0,33	0,33 0,282 C ⁺ 60,07 0,200 51,84
0,00 0,200 51,84	0,00
0,141 G ⁻ 44,37	0,141 C ⁻ 44,37
$\lambda_{1}=$ $\lambda_{2}=$	-0.35 $\lambda_{2}=$
$-0.70 \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$-0.70 \begin{array}{c ccccccccccccccccccccccccccccccccccc$
-0,70400 500 600 700 wavelength λ/nm contrast C=2:1	0.00000000000000000000000000000000000
wavelength ∧/nm contrast C=2:1	wavelength λ/nm contrast C=2:1
$R_2(\lambda) = \log[R(\lambda)/0,20] = \log[R_1(\lambda)]$ reflection	$R_2(\lambda) = \log[R(\lambda)/0,20] = \log[R_1(\lambda)]$ reflection
device blue $B_{\mathbf{d}}$ $\lambda_{\mathbf{d}}$ =463nm	device magenta-red $M_{\rm d}$ $\lambda_{\rm c}$ =535cnm
$0.70 - 1.000 R(\lambda)$ triangle lightness t^* : 100,0	$0.70 - 1.000R(\lambda)$ triangle lightness t^* : 100,0
0,35 T	0,35
0,35 0,282 B ⁺ 60,07 0,200 51,84	0,35 0,282 M ⁺ M ⁺ 60,07 0,200 51,84
0,00	0,00
0,141 B ⁻ 44,37	0,141 M ⁻ M ⁻ 44,37
-0.35 $\lambda_{2}=$	$\lambda_{2} = \lambda_{1} = \lambda_{1}$
-0.70 0.040 493 23,67	-0.70 493 567 23.67
400 500 600 700	400 500 600 700
wavelength λ/nm contrast C=2:1	wavelength \(\lambda \)/nm contrast \(C = 2:1 \)
$R_2(\lambda) = \log[R(\lambda)/0,20] = \log[R_1(\lambda)]$ reflection	Reflection, log[reflection], and triangle lightness t*
device white W _d	CIELAB lightness L^* is equal to triangle lightness t^* for grey colours. For surface colours all reflections are normalized to mean grey.
$0.70 + 1.000R(\lambda)$ CIELAB lightness $L^*:100.0$	The normalized reflections of white, grey and black are:
	$R_{1W}(\lambda) = 5, R_{1Z}(\lambda) = 1, R_{1N}(\lambda) = 1/5.$ [1]
0.35 + 0.282 W ⁺ 60.07	It is valid: $\log[R_{1W}(\lambda)] = 0.70$; $\log[R_{1N}(\lambda)] = -0.70$
0.200 51.84	therefore: $\log[R_{1N}(\lambda)] + \log[R_{1W}(\lambda)] = 0 = \log[R_{1Z}(\lambda)]$. [2]
0,00	For all reflections with $R_1(\lambda) = R(\lambda)/0,20$ it is valid:
-0.35 0.141 W ⁻ 44.37	$R_{\rm N}(\lambda) = 0.04, R_{\rm Z}(\lambda) = 0.20, R_{\rm W}(\lambda) = 1.00.$ [3]
	For the figure case it is: $R_N(\lambda)=0.141$; $R_W(\lambda)=0.282$.
-0.70 0.040 0.00 0.00 0.00 0.00 0.00	In this case is the scene contrast: $C = 0.282:0.141 = 2:1$.
$\begin{array}{cccc} -0.707 & \dot{400} & \dot{500} & \dot{600} & 7\dot{00} \\ & 4\dot{00} & \dot{500} & \dot{600} & 7\dot{00} \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ &$	Both CIELAB and triangle lightness are proportional to $log[R_1(\lambda)]$ for $R_1(\lambda)$ near 1,00 or $R(\lambda)$ near 0,20, for example for the contrast 2:1.
BEE90-7A BEE90-7R	BEE90-8A