$L* = 100 (Y/100)^{1/2,0}$ adaptation on surround gray: $L* = 100 (Y/100)^{1/2,4}$ description with CIELAB 1976: $L^* = 116 (Y/100)^{1/3,0} - 16$ adaptation on surround black:

sensation scaling functions lightness L* and luminous value Y adaptation on surround white:

 $L^* = 100 (Y/100)^{1/3,0}$