**sensation scaling functions
lightness $L*$ and luminous value Y**

adaptation on surround white:
$L* = 100 \, (Y / 100)^{1/2,0}$

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

ME250−2, B6_29