

# Requirements of the Standard EN 12464-1:2021, Table 34 — Offices; CRI>80

Valid from 2021-12-15

Illuminance $E_m$ , Values in lx	Horizontal			Ceiling	Vertical	
According to table	Visual task	Surrounding area	Background Area	Ceiling area	Walls	cylindrical
Table 34 — Offices Writing, ...	500	300	100 (1/3 of Surrounding area)	100	150	150
Recommendation: modified Illumination in lx	Increase by one level of the scale of illuminance if 1 to 2 context modifiers apply					
	750	500	167 (1/3 of Surrounding area)	150	200	200
	Increase by two levels of scale of illuminance if more than 2 context modifiers apply					
scale of illuminance in lx	1000	750	250	200	300	300
	50 - 75 - 100 - 150 - 200 - 300 - 500 - 750 - 1 000 - 1 500 - 2 000					

Uniformity $U_o$ Table 34	$\geq 0,6$	$\geq 0,4$	$U_o \geq 0,10$
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Color rendering	CRI>80 or CRI>90, higher color rendering is recommended
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Contrast glare RUGL from the viewer's position	Reception, canteen, break, coffee kitchen	< 22	Requirement	< 19**
	Writing, typing, reading, data processing	< 19	Barrier-free	< 16**
	Technical drawing, CAD	< 16	ÖN B 1600 **	< 13**

Reflective glare	Position the luminaires in such a way that there is no reflection glare!
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Specific requirements	Note according to the table: The lighting should be controllable
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Modeling Factor	0.3 - 0.6 for communication rooms
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Cyl. Illuminance / horizontal Illuminance
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Direct glare for computer workstations	above 65° < 3000cd/m <sup>2</sup> for positive screen display (white screen)
	above 65° < 1500cd/m <sup>2</sup> for negative screen display (black screen)

** ÖN B 1600 Barrier-free construction - Requirement for lighting for visually impaired persons (50% degree of disability due to visual impairment)	
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Contrast glare	$R_{UGL}$ -values of EN 12464-1 are reduced by the numerical value of three!
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