Modern office lighting

LUG®

35	12	76	600
Years of experience	Companies in the group	Markets	Over 600 employees

LUG is a leading European manufacturer of professional lighting solutions with over 35 years of experience. The company specialises in manufacturing infrastructural and industrial luminaires as well as decorative lighting for internal and external illumination.

A rich product portfolio, with over 6 thousand different versions of luminaires, allows the company to provide a comprehensive set of solutions for all kinds of projects.

An in-house team of lighting designers, an R&D Department with a fully equipped laboratory and a Customisation Section allow LUG to adapt products to the individual needs of even the most demanding of projects.

500 000
luminaires manufactured yearly

1 200
3D BIM models

6 000
total luminaire codes for all application areas

60 000
monthly production capacity

5+
year guarantee


LUG®
LIGHT FACTORY
OVER 35 YEARS IN LIGHTING

The importance of quality lighting in offices

Modern, high-quality lighting plays a key role in the office environment. Properly designed light improves the wellbeing and health of employees - reducing visual fatigue and headaches and facilitating concentration. This translates directly into improved productivity and efficiency for the team. At the same time, lighting that meets the highest standards provides comfortable conditions for performing visual tasks, minimising glare and shadows. The aesthetic aspect is also not negligible - light can shape a space, highlight the office architecture and create a welcoming atmosphere. Good lighting therefore becomes an investment in a healthy, comfortable and inspiring workplace, which is appreciated by both employees and visiting clients.

Key trends in office and lighting design

Today's offices are changing dynamically and designers must take into account new trends affecting the organisation of the space and its lighting:

Hybrid working:

the growing popularity of the hybrid model is forcing the adaptation of office spaces. Companies are reorganising office layouts to make them more flexible and multifunctional, resulting in higher space efficiency. Due to lower attendance (60% of employees on average vs. 70% before the pandemic), offices often occupy a smaller footprint - good lighting helps to maintain comfort despite the reduction in space. In addition, lighting must support new forms of working, such as frequent video conferencing - even, flicker-free light without glare on screens is required

Sustainability:

Ecology and energy saving are priorities in modern offices. Builders are increasingly opting for energy-efficient LED lighting technologies and smart control systems to minimise electricity consumption and carbon footprint. Integrated smart building systems adapt lighting to the presence of people and daylight, increasing efficiency while improving occupant comfort. This pro-environmental approach promotes building certification (LEED, BREEAM) and reduces operating costs in the long term.

Flexible spaces:

Modular, multifunctional spaces are being designed in response to the changing needs of business. An example is coworking zones, which are growing in popularity, offering flexible working conditions for different teams and freelancers. Short-term office rental and pop-up spaces require lighting that can be easily adapted to new layouts. The trend is towards creative and relaxation zones (e.g. lounge areas, green indoor gardens), where light with different scenarios (dimming, colour change) builds a mood conducive to relaxation and team integration. Designers must therefore select luminaires that provide versatility - both task lighting for workstations and atmospheric accents in informal zones.

Normative requirements

Professional office lighting design must comply with

PN-EN 12464-1

Applicability

1. Stair lighting
2. Open-plan offices
3. Offices
4. Conference rooms
5. Kitchen
6. Toilets

Lighting of workplaces (interior).

The key guidelines of this standard for typical office spaces are:

Illuminance (Em):

at least 500 lux at the desk (and approximately 300 lux around the desk). For other areas, recommended levels include 500 lx in meeting rooms, 300 lx in reception areas, 200 lx in break areas and toilets, and 100 lx in circulation areas

UGR (glare limited):

value < 19 for computer workstations and meeting rooms, which provides high visual comfort without annoying lamp glare. Ancillary areas may have a slightly higher UGR (e.g. reception area < 22)

CRI (Ra, colour rendering index): ≥ 80

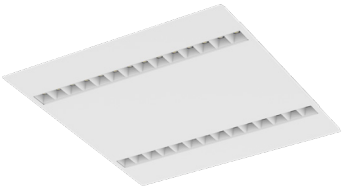
this colour rendering index is required to ensure that the colours in the room and on documents are reproduced correctly. In representative office spaces, sources with a CRI of 90+ are often used for even better light quality.

Uniformity of illumination (Uo): ≥ 0.6

on the work surface - this means that the light should be evenly dispersed without large differences in brightness (min. 60% of the average intensity at the darkest point). This avoids visual fatigue when moving the field of vision.

Meeting the above requirements ensures that lighting provides both comfort and safety at work in accordance with European standards. Lighting designers should pay particular attention to these parameters as early as the stage of selecting luminaires and planning the layout of light points.

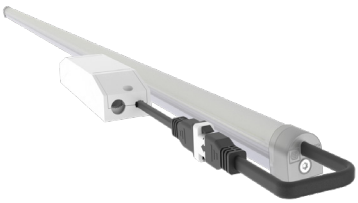
Selected products:



OFFICE MINI 2.0

SOFTIELIGHT

VOLICA 2.0 LED



RELUG

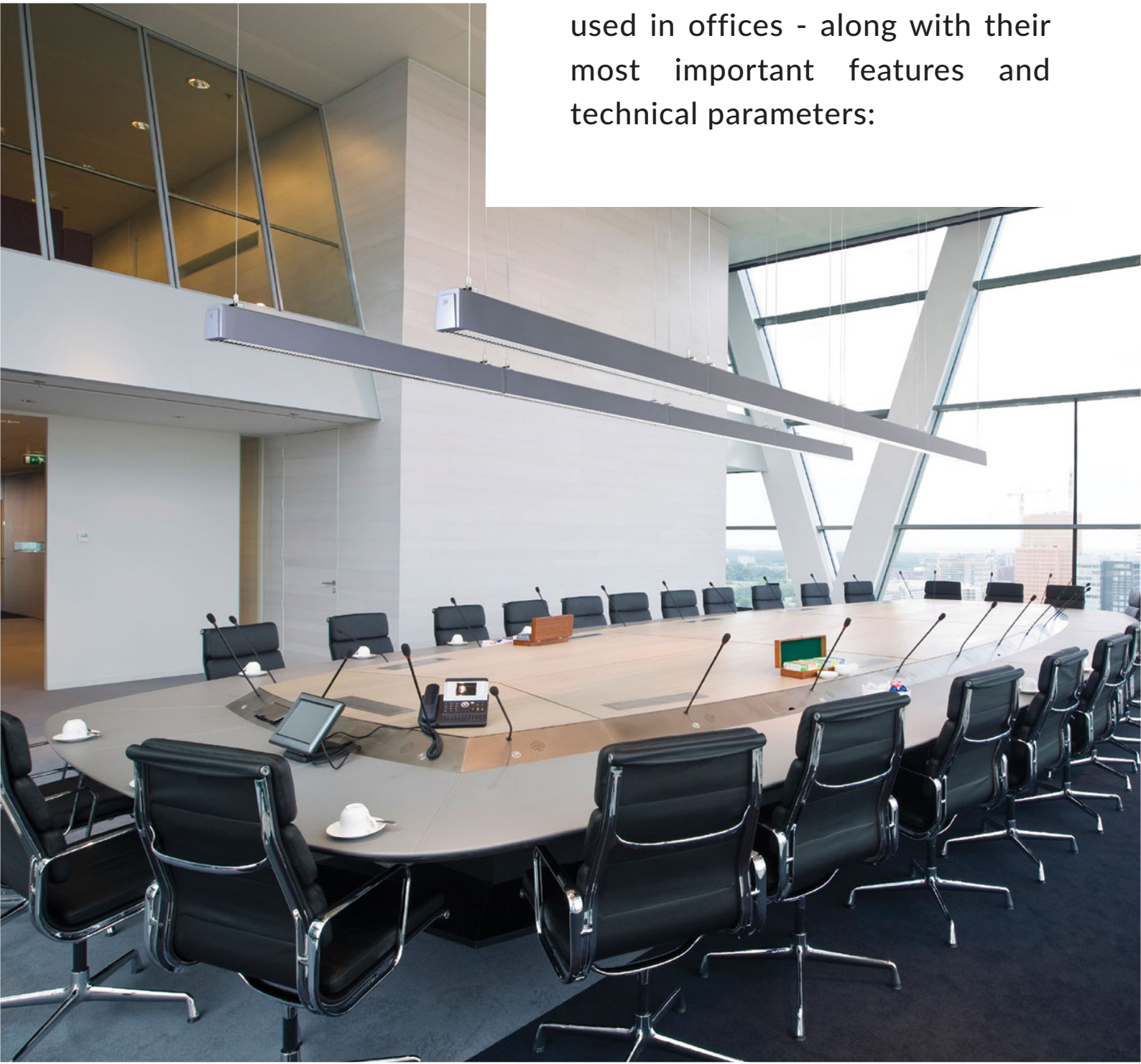
LUGCLASSIC SLIM 2.1

TLON 2.0

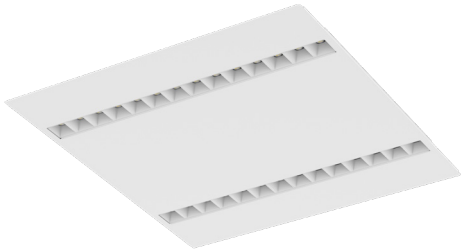
OPTILINE H200 LED

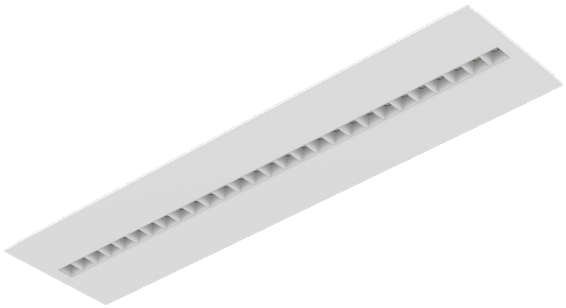
Modern LUG solutions for offices

To meet the above trends and requirements, LUG Light Factory offers a wide range of modern luminaires dedicated to office spaces. Below are the key LUG products and systems that are used in offices - along with their most important features and technical parameters:



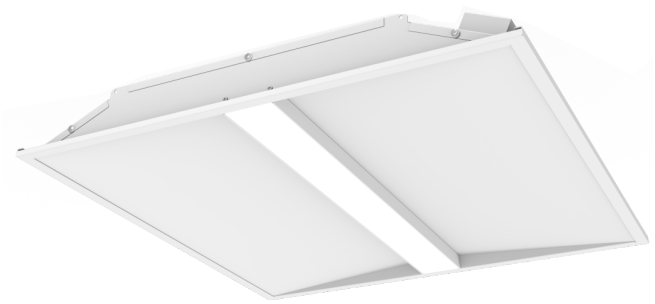
OFFICE MINI 2.0





A modern panel-type luminaire with compact dimensions, designed to illuminate workstations and open spaces. OFFICE MINI 2.0 provides high light uniformity and minimal glare - a UGR of less than 19 guarantees comfort when working at a computer. The luminaire is available in two sizes (e.g. for incorporation into a 600×600 mm or1200x300 ceiling module) and a power range of 17-30 W, providing a luminous flux of approximately 2550 to 4550 lm depending on the version. It is characterised by a very high efficacy of up to 159 lm/W and a long service life of 100 000 h (L80B10), which translates into many years of maintenance-free operation. As standard, it offers a CRI ≥ 80 and a choice of light colours of 3000 K or 4000 K. Office Mini 2.0 can be equipped with On/Off or DALI (control) fixtures, and an optional emergency module - a versatile lighting solution for most typical offices.

power	17 - 30 [W]
luminaire flux	2550 - 4550 [lm]
efficacy	143 - 159 [lm/W]
colour temperature	3000, 4000
UGR	<19
operating temperature	0˚C ... +35˚C



power	25 - 50 [W]
luminaire flux	3200 - 6700 [lm]
efficacy	120 - 140 [lm/W]
colour temperature	2700 - 6500
ULOR/DLOR	0/100
CRI	≥80
operating temperature	0 ... +25 0 ... +35

SOFTIELIGHT

A premium designer office luminaire, combining aesthetic qualities with the highest light comfort. Softielight is a unique solution with a slim design and high-quality finish. It features a micro-prismatic main diffuser, which disperses light evenly, and plx side panels acting as additional ambient lighting. Thanks to this design, the luminaire emits a pleasant, soft light (low UGR < 19) and creates an elegant lighting effect in the office interior. Softielight achieves an efficacy of up to 140 lm/W and offers a flux of 3200-6700 lm depending on the version, making it possible to effectively illuminate both smaller offices and larger open-space areas. A standard CRI ≥ 80 and a colour of 3000 K or 4000 K ensure natural colour rendering of the surroundings. The luminaire is compatible with the Zhaga Book 15 standard (replaceable LED modules) and has a life expectancy of up to 100 000 h (L80B10). Softielight is for those looking for striking design combined with the highest quality of light - ideal for representative spaces, conference rooms or reception areas.

VOLICA 2.0 LED

power	14 - 71 [W]
luminaire flux	1650 - 9500 [lm]
efficacy	118 - 156 [lm/W]
colour temperature	3000, 4000
ULOR/DLOR	0/100
operating temperature	0 ... +35

A family of modern linear luminaires for general lighting in offices. VOLICA 2.0 luminaires are characterised by their wide application possibilities - they are available in various diameters and power variants, making it easy to fit them into suspended or modular ceiling layouts. A wall-mounted version (VOLICA 2.0 Wall) is also available, allowing luminaires to maintain a consistent design, e.g. in corridors or staircases. A typical VOLICA 2.0 luminaire provides luminous flux from approx. 1650 to 9000 lm (depending on size) at efficiencies of up to 156 lm/W. All models have a CRI ≥ 80 and are offered in either 3000 K or 4000 K. The design of the luminaires guarantees a long service life (up to 100 000 h) and the possibility of DALI control. With optional diffusers (frosted or prismatic), a low glare factor can be achieved, meeting UGR standards in office spaces. The VOLICA 2.0 series will work well for both open space lighting and conference rooms or passageways, providing a modern look (thin frame, versions with different finishes) and energy efficiency.

MODERN OFFICE LIGHTING

OPTILINE
H200 LED

APPLICATION:

boutiques, logistics centers, warehouses, production halls, warehouses, supermarkets

power	30 - 60 [W]
luminaire flux	2600 - 5200 [lm]
efficacy	87 [lm/W]
colour temperature	3000, 4000
power supply	220-240V 50/60Hz
CRI	≥80
Lifetime L80B10	50 000 h
body	profil aluminiowy
colour	biały
operating temperature	0˚C ... +50˚C

dimensions LxWxH	1000x35x200 2000x35x200
mounting	on a cable suspension (on request), suspended
net weight	3,6 - 6,5 [kg]

RELUG

power	15 - 36 [W]
luminaire flux	2350 - 6000 [lm]
efficacy	do 167 [lm/W]
colour temperature	3000, 4000
ULOR/DLOR	0/100
operating temperature	0 ... +35

An innovative retrofit solution from LUG designed to modernise existing lighting. RELUG is a special set of LED modules that allows traditional fluorescent luminaires to be upgraded without having to replace them with new ones. In other words, instead of dismantling old luminaires (e.g. louvers with fluorescent lamps), RELUG can be used and the light sources replaced with LED modules. This approach has a number of advantages: rapid retrofitting without major installation work, retention of existing luminaires (important for historic or expensive architectural fixtures) and improved lighting energy efficiency. Replacing fluorescent lamps with high-efficiency LEDs reduces electricity consumption and CO_2 emissions, in line with sustainability goals. Importantly, RELUG is a CE-declared luminaire in its own right, thanks to its clever design. Retrofitting does not affect the manufacturer's declaration of conformity, so there is no risk of losing the guarantee or having to re-certify the entire luminaire as in the case of replacement with LED tubes. RELUG is therefore a cost-effective and environmentally friendly way to improve the quality of lighting in existing offices, often chosen for refurbishment and modernisation projects.

Other solutions:

LUGCLASSIC SLIM 2.1

TLON 2.0

LUGCLASSIC (a family of LED panels of varying sizes, also available in LOW UGR versions for demanding applications) or the striking TLON 2.0 ring luminaires for modern open-space arrangements. Thanks to the modular range, designers can select general, accent and emergency lighting, creating a complete system for the entire office).

Benefits of modern lighting

An investment in modern office lighting translates into tangible benefits for users and organisations:

Employee health:

Good lighting promotes visual health and overall well-being. Eliminating excessively dim or flickering light reduces eye fatigue, headaches and other ailments resulting from prolonged work at a monitor. Adequate lighting rhythm (intensity and colour close to natural daylight) has a positive effect on the diurnal rhythm, which can improve the quality of sleep and recovery of workers. In well-lit offices, lower sickness absence and higher daytime energy levels are reported.

Efficiency and productivity:

the quality of lighting has a direct impact on productivity. Studies show that well-chosen light increases the ability to concentrate and makes it easier to perform tasks, resulting in faster work rates and fewer errors. Employees in an ergonomically bright environment are more stimulated and focused, thus increasing their productivity. In addition, modern control systems (e.g. presence sensors, automatic intensity control) ensure that conditions are always optimal - light is brighter when needed and dimmed during periods of lower activity. This eliminates situations where under- or over-lighting negatively affects efficiency. The improvement in comfort and health discussed above also indirectly increases productivity - a rested, unstressed employee works better.

Comfort and ergonomics:

Modern luminaires provide high visual comfort - reducing direct and reflected glare (UGR compliant), giving pleasant, diffused light. The absence of flickering effect (thanks to LED technology and high-quality power supplies) reduces fatigue and the risk of distraction. In addition, appropriately positioned light sources eliminate harsh shadows. All this means more ergonomic working conditions - employees can perform visual tasks for long periods of time without discomfort. In the age of remote and hybrid working, optimal conditions for video conferencing are also important - modern office lighting minimises reflections on screens and ensures good image quality during online meetings. A comfortable environment increases workplace satisfaction and promotes concentration.

Aesthetics and image of the space:

Lighting is an important element of office interior design. Modern luminaires with an elegant design enhance the aesthetic qualities of a room - they give it character and emphasise the architecture. With various forms of light (direct, indirect, decorative), a friendly atmosphere for creativity or relaxation can be created, depending on the zone. A well-lit office impresses clients and visitors, creating a professional image for the company. In addition, skilful use of light (e.g. accentuating logos, walls with certificates, reception areas) can become an element of an organisation's visual identity. Aesthetics go hand in hand with functionality here - modern lighting combines form and content, creating a space that is both beautiful and comfortable to use.

Personalisation and design support from LUG

Every office project is different - which is why LUG offers not only ready-made products, but also customisation and support at the design stage. At LUG, we believe that light is not only a functional element, but also a key factor shaping a space, which is why we are not limited to a standard offer - we are a leader in the area of tailor-made lighting customer. A dedicated Custom Department undertakes the development of solutions for specific project requirements.

In practice, this means that interior designers and architects receive full support when planning lighting. At the outset, LUG specialists help to analyse the project assumptions - budget, implementation timeframe and detailed technical requirements. For example, target parameters (e.g. UGR < 19, minimum efficacy of 120 lm/W due to BREEAM certification, preference for mounting system such as quick connectors) can be defined already at the concept stage. LUG engineers then propose optimal solutions: the selection of appropriate luminaires from the catalogue or modification of existing products to meet the requirements (e.g. adaptation of luminaires for climate ceilings with active cooling, unusual luminaire dimensions, special optics or different colour temperature). If a ready-made portfolio does not contain the ideal solution, LUG can create a prototype product to meet the client's needs. Such an individual approach ensures that the lighting project fully realises the architect's vision and meets the investor's expectations.

The support does not end at the product selection stage. LUG also offers assistance in the preparation of lighting simulations, luminaire layout plans and consultation on standards and regulations. This provides designers with a complete set of information needed to create technical documentation for office lighting. During the implementation phase, LUG coordinates deliveries and provides after-sales support. Cooperation with an experienced manufacturer such as LUG ensures that even innovative and unusual lighting concepts are realised professionally and on time - from the idea to the final effect.

Member of:

EPD®

RoHS

Synergrid

ZHAGA
Associate Members

PLATINUM Top 1% ecovadis Sustainability Rating JAN 2025

DARKSKY APPROVED · Reduces light pollution ·

PLUS 30

ENEC

SASO

ISO Certificates.

At LUG, we focus on product quality and process efficiency.

For years, we have not wavered in our pursuit of perfection. This is reflected in the ISO standard certificates we hold, which are recognised by independent certification bodies. Over the years, we have successfully obtained: PN ISO 14001:2015 (environmental management system), 9001:2015 (quality management system); 50001:2018 (energy management system) and 45001:2018 (occupational health and safety management system) for our two LUG Light Factory sites located in Zielona Góra. Each year, we are also subject to recertification audits, during which our performance in individual areas is reviewed and analysed in detail.

ISO 45001:2018
Management System Certificate
Certificate of Occupational Health and Safety Management System

ISO 14001:2015
Environmental Management System Certificate

ISO 9001:2015
Quality Management System Certificate

ISO 9001:2015
Energy Management System Certificate

ISO 17025:2018
Laboratory approval certificate for photometric, thermal, leakage, colorimetric, electrical tests.

www.luglightfactory.com

Check out our entire range
of office lighting