

PRESS INFORMATION

Precise light guidance and optimum glare control for harsh environments

The new ZUG LED LENS and ZUG LED DARKLIGHT tube luminaires from NORKA combine extreme durability with special optics for precise light guidance and glare control with maximum efficiency.

With the new ZUG LED LENS and ZUG LED DARKLIGHT models, NORKA is expanding the range of applications for its proven multi-talented ZUG LED tubular luminaire family. The new models combine high protection ratings and protection class II for harsh environments with comfortable, precisely directed and low-glare light. Whether in work pits or factory and maintenance halls, at bus and tram stops, in the food and beverage industry, in swimming pools or car parks, in drinking water reservoirs or car washes, the extremely robust ZUG LED family always works reliably, even under the harshest external influences.

The new ZUG LED LENS tube luminaire now offers three different light distributions as standard, providing the ideal solution wherever targeted, concentrated and efficient light distribution is required, for example at assembly and maintenance stations in production and industrial halls or in sewage treatment plants and water reservoirs. The new ZUG LED DARKLIGHT tubular luminaire is recommended for use in technical work areas with high requirements for visual ergonomics and standard-compliant glare control with $UGR < 19$, such as research and testing laboratories or inspection stations in industry.

High protection ratings – robust construction

Both versions feature a luminaire tube made of clear PMMA (impact-resistant) with a diameter of 75 mm, two quick-release fasteners and safeguards against unauthorised opening. They can be used both indoors and outdoors, with protection class IP68 / IP69K pressure waterproof up to 20 m and suitable for intensive cleaning processes with high-pressure cleaners. The luminaires are available in three lengths: m600, m1200 and m1500. They come standard with LEDs in the light colour 4000 K with a colour rendering index of $Ra > 80$.

ZUG LED LENS – modular lens system for targeted illumination

With ZUG LED LENS, high-quality optical lens arrays integrated into the luminaire tube ensure targeted, focused light distribution in three different beam characteristics: narrow beam, concentrated wide beam and extreme wide beam. This modular LED lens system can be flexibly arranged in the luminaire tube, allowing different beam characteristics to be combined in one and the

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same luminaire. For example, it is possible to illuminate a room in depth from a single point of light while at the same time focusing another point of light on the near field. Thanks to their high IP68 / IP69K protection rating and flexible light guidance options, ZUG LED LENS luminaires are ideal for use in water reservoirs, drinking water supply systems and sewage treatment plants, as well as in a wide range of industrial sectors – and in many other areas with special and particularly difficult environmental conditions.

ZUG LED DARKLIGHT – low-glare lighting for demanding visual tasks

The luminaire tube of the narrow beam ZUG LED DARKLIGHT incorporates a darklight louvre to significantly reduce direct glare. The precisely coordinated combination of LED lens and darklight louvre enables a UGR value of < 19, thereby meeting the requirements of DIN EN 12464-1 for office workplaces – depending on the specific planning situation. This makes the luminaires suitable for use in visually demanding and difficult work areas that require a high degree of concentration and visual comfort, such as inspection workstations in industry and research laboratories.

NORKA – Light perfected.

The family-owned company NORKA, founded in 1948 and based in Hamburg and Dörverden-Hülsen, specialises in technically sophisticated lighting solutions tailored to very special ambient conditions. The main application areas for NORKA luminaires include industrial and production workshops, train platforms and transport buildings, workshops, multi-storey car parks, facades, port facilities and work pits, as well as washing systems, swimming pools, logistics centres and cold stores. With its area of business VERNØ for traffic and tunnel lighting, NORKA also offers a broad product portfolio for improving traffic safety. This range includes luminaires for entrance and passage lighting in tunnels, as well as solutions for traffic guidance and the indication of escape routes. NORKA products provide maximum investment security thanks to their long service life, high availability and energy efficiency.

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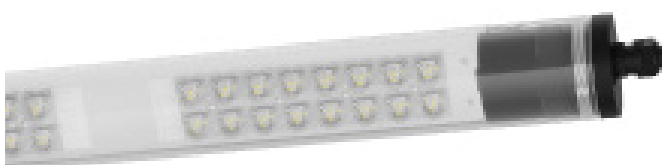
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ZUG LED LENS and ZUG LED DARKLIGHT tube luminaires / Pictures: NORKA



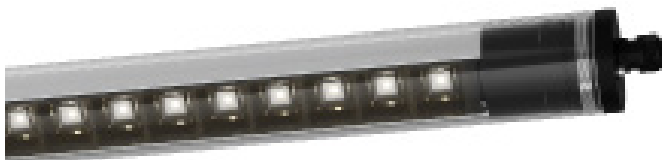
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02 With ZUG LED LENS, high-quality optical lens arrays integrated into the luminaire tube ensure targeted, focused light distribution in three different beam characteristics: narrow beam, concentrated wide beam and extreme wide beam.



03 The luminaire tube of the narrow beam ZUG LED DARKLIGHT incorporates a darklight louvre to significantly reduce direct glare.



04 The precisely coordinated combination of LED lens and darklight louvre enables a UGR value of <19.



05 The extremely robust ZUG LED luminaire family from NORKA always works reliably, even under the harshest external conditions – whether in work pits or factory and maintenance halls, at bus and tram stops, in the food and beverage industry, in swimming pools, car parks, car washes or, as shown in the picture, in drinking water reservoirs.