

## **PRESS INFORMATION**

### **New internal components, flexible lighting effect Luminaires DUBLIN LED and LONDON LED offer new functions**

The luminaires DUBLIN and LONDON are two proven multi-talents of the NORKA range. Multiple light parameter and mounting options allow several different applications for the robust luminaires with corrosion-resistant aluminium housings. The NORKA engineers have fundamentally revised both models and will present the new DUBLIN LED and LONDON LED luminaires at the Light + Building 2018 trade fair. The new LED versions are a lot more efficient than their conventional predecessors and offer interesting lighting functions.

#### **Efficient lighting technology, modular design**

First things first: DUBLIN and LONDON are now equipped with efficient LED technology. For this purpose, NORKA has completely redesigned the internal components of the luminaires. LED boards in a closed tube made of diffuse PMMA are used as lamps. These LED units that shine across 120 °Can be easily clipped into two retaining clips in the lamp chamber and connected using a polarity-protected connector.

As the LED drivers can be replaced quickly, this concept offers multiple possibilities of equipping the luminaire housing with new LED units if required. "LED technology is evolving at a quick pace, but our luminaire housings ensure an extremely long service life thanks to the excellent quality of material and workmanship", Jürgen Schoene, Head of Design at NORKA explains. "Thanks to our concept, which we also already use for our luminaire series ERFURT LED, the customers can simply upgrade the luminaires when new LED developments are available or the lighting requirements of their application changes – an important benefit for investment security and sustainability."

#### **Flexible adjustment: medium beam/asymmetric beam**

The fixation of the LED lighting tubes with retaining clips offers another advantage: The LED units can be locked into place in 10° increments by 30° each to the left or right and without using tools. This way, the light-emitting direction can be adapted to the project-specific requirements. This can be useful for applications where the luminaires cannot be directly mounted above the area of the visual task due to ascending heat, on-site requirements, safety reasons or inaccessibility for maintenance purposes.

#### **High protection rating, diverse mounting options**

All proven features of the flat, rectangular luminaire housing made of anodised aluminium have been maintained. Thanks to their IP65 protection rating, DUBLIN LED and LONDON LED can be used indoors and outdoors.

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Not only are the double insulated luminaires protected against the ingress of dust and water jets, there are also versions for chlorine-containing atmospheres, for example in swimming pools, as well as ball impact resistant versions for sports halls. For use in public areas NORKA also offers an anti-graffiti coating as an option.

The different options for customised mounting that the DUBLIN and LONDON have always provided have been maintained without restrictions. The luminaires can be arranged as single luminaires or as a continuous row system. The luminaire chassis is fixed to the ceiling via rearward bores and as an option a frame mount for flush recessed mounting is also available. Since they can be combined with the NORKA trunking system with a width of 185 mm (for DUBLIN LED) and 285 mm (for LONDON LED), these multifunctional systems can be implemented in a consistent design form. The trunking systems made of extruded aluminium profiles are available in lengths up to 4 m. They function as carriers for the row mounting, enable DUBLIN LED and LONDON LED to be combined with other luminaire types of the NORKA range, are used for cable runs and can also accommodate other technical components such as loud speakers.

### **Increased efficiency thanks to changeover**

After the changeover of the luminaires to LED technology, the user benefits from significantly reduced maintenance costs, as the previously required lamp changes are no longer needed. NORKA specifies a service life of 50,000 hours for the LED units at -25 °C to 40 °C. Moreover, the LED versions have a much lower weight than their conventional predecessors. For the common applications in railway stations, subways, pedestrian tunnels, passages, multi-storey car parks, swimming pools, on transport areas and under canopies, another factor can be of great interest: DUBLIN LED and LONDON LED consume up to 40% less energy compared to similar luminaires and fluorescent lamps. This value can even be increased when the luminaires are operated with an intelligent lighting control system.

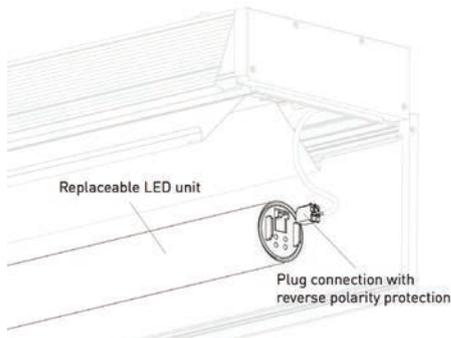
Both luminaire types are available in the lengths 1,200 mm and 1,500 mm. The luminous flux for the DUBLIN LED with a LED lighting unit is 3,480 lm or 4,790, respectively, and for the LONDON LED with two LED units it is 6,960 lm or 9,580 lm, respectively. The customer has the choice between a luminaire cover made of clear PMMA (acrylic glass) or clear polycarbonate.

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NORKA  
Norddeutsche Kunststoff- und Elektro-  
gesellschaft Stäcker mbH & Co. KG  
Jens Heinrich  
Sportallee 8  
D-22335 Hamburg  
T. +49.40.513009-87  
F. +49.40.513009-8087  
jens.heinrich@norka.de / www.norka.de

AR-PR  
Andrea Rayhrer  
Kommunikation & Public Relations  
Alexanderstraße 126  
D-70180 Stuttgart  
T. +49.711.62007838  
M. +49.163.5001978  
andrea.rayhrer@ar-pr.de  
www.ar-pr.de