

Press information

PLEASE NOTE: EMBARGOED UNTIL 22:00 ON 30. NOVEMBER 2017

CARDAN evolution – a new type of classic cardanic accent lighting

With its state-of-the-art LED technology and sophisticated design, the CARDAN evolution architectural downlight from Zumtobel offers a new approach to cardanic accent lighting. Cardanic solutions have often been plagued by the problem of self-illumination caused by light being directed towards the fitting itself. CARDAN evolution incorporates an asymmetric housing to prevent or minimise this issue, enabling the full efficiency of the lighting technology to really come into its own.

Dornbirn, 15. November 2017 – Modern shopping centres and stores are increasingly becoming spaces that offer genuine retail experiences. Light is now being used more and more to stimulate emotions and create brand identities. Intelligently planned light has the potential to set the focus and therefore influence purchasing behaviour. Authenticity, energy efficiency, individualisation, miniaturisation of the luminaires and precise accentuation therefore play a central role when planners look to design effective lighting solutions for retail and presentation applications.

The turnable and tiltable [CARDAN evolution](#) luminaire from [Zumtobel](#) fuses outstanding flexibility with a timelessly simple design, enabling both sizes of this recessed downlight (M and L) to blend harmoniously into a wide variety of architectural settings. An extensive range of accessories adds even further creative scope by fulfilling a wide range of precise accent-lighting tasks. In this way, [CARDAN evolution](#) stands out as a multifunctional lighting tool characterised by excellent colour rendering and a choice of light distributions. Even car showrooms, exhibition halls in industrial buildings and other display areas or retail spaces with high ceilings can be showcased effectively with the help of the CARDAN evolution L version.

The housing design as a unique feature

Zumtobel developed the fundamental and functional design concept for CARDAN evolution together with the architecture and design office [blocher partners](#). As a core and yet simultaneously discreet and asymmetrical design feature, the so-called “Lightgroove” is a moulding in the housing that crucially prevents self-exposure – a typical problem with existing cardanic solutions. Self-illumination is completely avoided with a tilt angle of 0° to 20°, while the issue is minimised with a tilt angle of 21° to 30°. The fact that the housing does not disturb the light beam makes the luminaire up to eight per cent more efficient. In combination with dedicated reflector technology, the “Lightgroove” also ensures excellent glare reduction and therefore optimal visual comfort. In

addition, the presence of minimal gaps prevents users from seeing directly into the ceiling. This supports a calm appearance and creates a smooth transition from the ceiling to the spotlight.

Various options for targeted lighting

A modular design approach makes the CARDAN evolution recessed downlight the ideal choice for a series of different applications. The luminaire can call on a wealth of different shapes, sizes, fittings, light colours and accessories to meet the needs of various lighting tasks. For example, flexibility for vertical lighting has been achieved with the addition of two new optics: a bending glass optic that visually extends the tilt angle by a further 20° and a vertical optic for the uniform illumination of walls and vertical surfaces. At the same time, precision reflectors throughout the range deliver precise beam characteristics and thereby guarantee brilliant accent lighting. The luminaire head can be rotated 360° and tilted by 30° to suit the exact demands of the particular application.

CARDAN evolution also impresses with a tool-free installation concept. The recessed ring and all frames can be mounted quickly using a snap-in mechanism, while the luminaire head is then simply clicked into place. Once installed, the luminaire can be easily modified or aligned with the new adjustment tool – and without having to climb a ladder. Thanks to the modular design, disassembly is also possible without causing any marking or damage to the ceiling.

CARDAN evolution facts and figures:

- A new type of classic cardanic accent lighting in two sizes (M and L)
- The “Lightgroove” prevents or minimises self-illumination and increases the efficiency of the luminaire
- Calm ceiling appearance thanks to perfect integration and minimal gaps
- Luminaire head: turnable (360°) and tiltable (+30°)
- Precision reflectors deliver defined beam characteristics for brilliant accent lighting
- Based on stableWhite LED technology. Versions with True Gamut Rendering T30 (for fashion) and FW / BKY light colours (for meat and bakery products) are also available
- Comprehensive range of lighting accessories, including new bending glass optic and vertical optic
- Tool-free installation and disassembly of the modules with a snap-in mechanism for the recessed rings and frames
- Alignment of luminaires with the new adjustment tool – without a ladder.

Photo captions:

(Photo credits: Zumtobel)



Photo 1: As a multifunctional lighting tool with excellent colour rendering and various light distributions, **CARDAN evolution** stands out as the ideal solution for applications such as shops, car showrooms and presentation spaces in industrial buildings.



Photos 2a and b: The so-called “Lightgroove”, a carefully engineered moulding in the housing, is a core and yet simultaneously discreet asymmetrical design feature that crucially prevents self-illumination – a typical problem with many cardanic solutions.



Photo 3: Authenticity, energy efficiency, individualisation, miniaturisation of the luminaires and precise accentuation play a key role when it comes to designing effective lighting solutions for retail and presentation applications – a fact that underlines the relevance and importance of the new **CARDAN evolution** range.

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Über Zumtobel

Als Innovationsführer entwickelt Zumtobel nachhaltige Lichtlösungen, maßgeschneidert für die Bedürfnisse des Menschen im jeweiligen Anwendungsbereich. Mit einem umfassenden Portfolio an hochwertigen Leuchten und intelligenten Lichtmanagementsystemen stellt der österreichische Lichtanbieter für jede Aktivität und zu jeder Tageszeit, für den Arbeits- und privaten Lebensraum, für den Innen- und Außenbereich das richtige Licht zur Verfügung. Die Anwendungen Büro, Bildung, Verkauf und Handel, Hotel und Wellness, Gesundheit, Kunst und Kultur und Industrie werden mit einem Portfolio für die Bereiche Living und Outdoor perfekt ergänzt. Zumtobel ist eine Marke der Zumtobel Group AG mit Konzernsitz in Dornbirn, Vorarlberg (Österreich).

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