Wellbeing in office spaces is enhanced by holistic lighting ecosystems. Active Light is linked to daylight dynamics, actively supporting the natural bio rhythm and seamlessly ensuring maximum visual comfort for tasks. Such human centric lighting solutions bring people together and promote creativity, as they are effortlessly personalized, with the individual always at heart.

See here how Active Light works: zumtobel.com/activelight
Creating Light Creates Inspiration

Wellbeing in office spaces is enhanced by holistic lighting ecosystems. Active Light is linked to daylight dynamics, actively supporting the natural bio rhythm and seamlessly ensuring maximum visual comfort for tasks. Such human centric lighting solutions bring people together and promote creativity, as they are effortlessly personalized, with the individual always at heart.

See here how Active Light works: zumtobel.com/activelight

Intensity
The right lighting level can best be determined by the individual’s visual ability and the task itself. Moreover, basic planning parameters and current standards for workplaces must be taken into account.

Direction
Light is a tool for architectural design. By varying luminance and light distribution the general atmosphere of a space can shift instantly, which can have a major impact on communication, creativity and easing of tension.

Colour
The human body reacts to the colour temperature of light. While cooler, blueish light colours activate, warmer, reddish light colours have a soothing effect. A study carried out in cooperation with the Fraunhofer IAO shows that a user’s colour preferences vary depending on age, working hours and individual needs.

Time
By mimicking the natural dynamics of daylight, artificial lighting complements and supports one’s internal clock.
DVB Bank SE, Frankfurt am Main | DE
Architects: Architekten Theiss Planungsgesellschaft mbH, Frankfurt am Main | DE
Lighting project design: Arnold & Hensel Partnerschaft Elektroingenieure, Klein-Winternheim | DE
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MIREL evolution Design
Modernisation of the louvre luminaire
“MIREL evolution is the next generation of louvre luminaires. By giving the luminaire a distinct appearance, Zumtobel has mastered the challenge of integrating energy-efficient LED technology into a tried-and-tested stylistic idiom: the LED modules of MIREL evolution remain visible to the user. Its design being clear, unobtrusive and universally applicable, the luminaire comes with great potential for lighting quality and energy efficiency.”
MIREL evolution with visible LED lenses
First-class for offices and education

Only 52 mm high, MIREL evolution is the flattest surface-mounted luminaire in the Zumtobel range. When it comes to luminaire efficiency, it is exemplary, too: up to 140 lumens per watt result in short payback periods. Light distribution is effected via the lenses at a rate of 95 per cent; only 5 per cent are accounted for by the reflections from the lighting chamber. The Wide Beam lens optic is the ideal choice for applications where high uniformity comes first. The range of lumen packages and module sizes correspond to those of conventional recessed luminaires. Accordingly, conventional luminaires can simply be replaced by exchanging them 1:1. Another benefit: MIREL evolution is available in many versions, for instance as an emergency luminaire with separate battery supply.

UV stabiliser
A special UV stabiliser protects the polycarbonate diffuser from turning yellow. Thus, MIREL evolution is able to keep its white colour all through its period of service.
Standard-compliant office lighting

The unique LED lenses combine directional light distribution with a brilliant look. The Standard Beam lens optic features a batwing light distribution to offer excellent glare control in line with EN 12464-1:2011 (UGR < 16 and L65 < 1500 cd/m²). Alternatively, the Wide Beam lens optic supports maximum uniformity with norm-compliant glare control (UGR < 19 and L65 < 3000 cd/m²).

MIREL evolution lens optic

- Luminaire efficiency: up to 140 lm/W
- Higher protection: IP40
- Very good LED binning: MacAdam 3
- Long LED service life: 50000 hours with a low drop in luminous flux (L85)

myProduct: configuration as emergency lighting (central and separate battery supply E1D, E3D), various plugs such as W3, W5 and FP
MIREL evolution wide beam
For even greater uniformity

MIREL evolution wide beam is the ideal lighting tool when special demands are placed on the level of uniformity. This lens optic with a wide distribution is particularly recommended for pendant luminaires, as the lower mounting heights associated with suspended fittings usually make it harder to achieve good homogeneity.

Wide Beam lens optic
A wide light distribution makes it easy to achieve the highest level of uniformity (g > 0.7) – even in peripheral areas.

Standard Beam lens optic
The MIREL evolution standard beam version puts the focus on high efficiency and excellent glare control.

MIREL evolution pendant luminaire with Wide Beam lens optic
MIREL evolution pendant luminaire
Task luminaire with direct/indirect light distribution

Installed as a suspended individual luminaire or as a continuous-row system with through wiring, the MIREL evolution pendant luminaire looks even more sophisticated. Lighting quality in conformity with workstation requirements is ensured thanks to a direct light component of 60 per cent with good glare control and batting light distribution. The ceiling, and by reflection also the entire room, is uniformly brightened up by the indirect light component of 40 per cent. In addition, MIREL evolution is available with an integrated presence detector and daylight sensor to support the responsible use of light.
Lighting refurbishment

Easy installation in various ceilings

In a few simple steps, MIREL evolution can be installed in various ceiling types: in modular ceilings with exposed carrier system, the luminaire is simply inserted; in case of concealed carriers or sawn ceiling cut-outs, a mounting kit facilitates installation. Owing to designs and lumen packages that meet the proven standards for recessed luminaires, MIREL evolution is perfectly suited for lighting refurbishment projects.

Smart lighting control via Bluetooth

A large part of the luminaire range is offered with optional basicDIM radio technology for wireless control. Communication with the luminaires is achieved using an app for mobile devices. This means that even existing lighting solutions can be modernised quickly, as lighting control does not require any additional wiring.
MIREL evolution slim

This luminaire catches the eye with its slender form and reduced number of lenses, combining very high light levels with good glare control (UGR < 19). MIREL evolution slim is offered in a range of widths and lengths, while both its dimensions and the associated lumen packages correspond to those of conventional T16 lamps. This enables lighting refurbishment projects to be carried out with minimum effort and inconvenience. The 70-mm-high luminaire can be simply inserted into a module ceiling without the need for rewiring and then levelled accordingly. In line with the vast majority of modular ceilings, MIREL evolution slim is made using powder-coated metal, ensuring a perfect match in terms of both material and colour.
MIREL evolution mini
Quadratic downlight

The quadratic downlight consistently continues the family idea in the smallest space. With an edge length of 230 mm and the low profile, MIREL evolution mini also looks extremely attractive as a surface-mounted downlight. The small model satisfies high requirements on quality and consumption with a luminaire efficiency of 120 lm/W, the batwing light distribution and glare control of UGR < 19 and L65 < 3000 cd/m² conforming to EN 12464:2011. Everything is also possible in the area of emergency lighting: Every MIREL evolution mini standard luminaire can be integrated into an emergency lighting system with a central battery; the power supply using an individual battery is provided as an option in the myMIREL Online Configurator.
<table>
<thead>
<tr>
<th></th>
<th>Surface-mounted luminaire</th>
<th>Recessed luminaire with spring clip</th>
<th>Recessed luminaire with magnet</th>
</tr>
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<tr>
<td>Sizes</td>
<td>230 x 230 x 63 mm</td>
<td>170 x 170 x 38 mm</td>
<td>150 x 150 x 38 mm</td>
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<tr>
<td>Colour temperatures</td>
<td>3000 K</td>
<td>3000 K</td>
<td>3000 K</td>
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<tr>
<td></td>
<td>4000 K</td>
<td>4000 K</td>
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<tr>
<td>Lumen packages</td>
<td>1200 lm</td>
<td>1200 lm</td>
<td>1200 lm</td>
</tr>
<tr>
<td>Housing colours</td>
<td>black or white</td>
<td>black or white</td>
<td>black or white</td>
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</tbody>
</table>
The free-standing luminaire utilises a luminous flux of 12,000 lumens to provide every workstation – including double workstations – with brilliant light. Thanks to two types of head connection and the efficient MIREL Wide Beam lens optic, this fitting also meets the demands of various different workplace arrangements, while the flat head gives the product a compact overall appearance from all angles. As well as featuring a presence detector and daylight sensor, the luminaire can be conveniently operated and adjusted using buttons or a remote control.

### MIREL evolution free-standing luminaire

- Luminous flux: 12,000 lm
- Luminaire efficiency: up to 130 lm/W
- Colour temperature: 3000 K, 4000 K
- Glare control: L65<3000 cd/m²
- Switchable with switchDIM, sensControl
- Standby power: <0.5 W
- Head connection: centred, side (or as a twin-head version on request)
1 Design
A visible joint stretches all the way around the rectangular luminaire head to support an impressively compact appearance from every perspective.

2 Optical system
The MIREL Wide Beam lens optic harnesses a broad batwing distribution to offer direct light with high uniformity, perfect glare control and optimum light output. The optic also shapes a wide indirect light distribution.

3 sensControl technology
The integrated brightness and motion sensors can be individually adapted to reflect the demands of the specific application.

4 Remote control and programmer
The IR6 remote control and an ILD programmer enable simple control and the setting of individual parameters – all with the push of a button.
MIREL evolution with LRO optic
Ideal for offices and education

The combination of a standardised, high glare suppression, even with large lumen packages (UGR < 19 and L65 < 3000 cd/m²), and high efficiency make MIREL evolution LRO the ideal luminaire for offices and educational institutions. The innovative, 3-layer LRO optic gives it a uniform appearance to satisfy the wish for brilliant and at the same time homogeneous light. Cleaning is also made easy thanks to the smooth surface that makes it difficult for dirt and dust to stick to the surface.
Brilliant office lighting
A diffuser layer (1) initially disperses the LED light points perfectly. The light beams are then distributed evenly by two crossed lenticular films (2). A transparent cover (3) fully protects the inside of the luminaire against foreign bodies.

MIREL evolution LRO optic
Luminaire efficiency: up to 112 lm/W
Higher protection: IP40
Very good LED binning: MacAdam 3
Long LED service life: 50,000 hours with a low drop in luminous flux (L80)
myProduct: configuration as emergency lighting (central and separate battery supply E1D, E3D), various plugs such as W3, W5 and FP
MIREL evolution with opal cover
Consistent design from the office into the corridor

Following up on the character of the lens luminaire, the opal variant of MIREL evolution continues the family concept. Square luminaires and linear luminaires position themselves as attractive lighting solutions for corridors and side rooms through quality and price. Additionally, MIREL opal luminaires with small lumen packages are ideally suited for offices and educational facilities. At glare control of UGR < 19 and luminance levels of L65 < 3000 cd/m², the luminaires provide standard-compliant glare limitation. Luminaire efficiency of 135 lm/W is a convincing argument for all applications. Thanks to the great variety of versions available, MIREL evolution may also be used as an emergency luminaire with separate battery supply, for instance.
3Dprotect® reflector with multiple functions
The innovative 3Dprotect® reflector serves as an insulating element of the LED modules, increasing the light output ratio at the same time.

MIREL evolution opal optic
- Luminaire efficiency: up to 135 lm/W
- Higher protection: IP40
- Very good LED binning: MacAdam 3
- Long LED service life: 50,000 hours with a low drop in luminous flux (L80)
- myProduct: configuration as emergency lighting (central and separate battery supply E1D, E3D), various plugs such as W3, W5 and FP
MIREL evolution mounting
Surface -mounted, recessed mounted or simply inlaid

Lay-in luminaires
For ceiling modules with visible support system

Height-adjustable recessed luminaire
For ceiling modules with concealed support system or for sawn ceiling openings

Accessories: Recessed housing for luminaire with lens optics

Linear luminaire with lens optics
Slim luminaire with lens optic
Quadratic luminaire with lens optics
Linear luminaire with lens optics
Slim luminaire with lens optic
Quadratic luminaire with lens optics
Linear luminaire with LRO optic
Square luminaire with LRO optic
Linear luminaire with LRO optic
Square luminaire with LRO optic
Linear luminaire with opal optics
Quadratic luminaire with opal optics
Linear luminaire with opal optics
Quadratic luminaire with opal optics
Surface-mounted luminaire
Powder-coated luminaire housing with 52 mm visible height

Pendant luminaire
As individual luminaire or continuous-row

Downlights
MIREL evolution mini

Accessories:
Surface-mounted housing

Linear luminaire with lens optics
Quadratic luminaire with lens optics
Pendant luminaire with lens optics
Recessed luminaire with spring clip
Recessed luminaire with magnets
Due to the variety of design options, C-strip grid and T-beam ceilings in public buildings, offices or shopping malls are still highly popular. MIREL evolution is a custom-fit refurbishment solution that provides ideal prerequisites for keeping the costs required for refurbishment of the lighting system as low as possible for the customer. The modular platform for MIREL lens luminaires includes both square versions and linear luminaires for flush mounting. Another benefit: individually designed versions of the custom-fit recessed luminaires can also be installed in closed ceilings. MIREL evolution modular thus extends the variety of application options for the MIREL luminaire range, providing high-quality lighting solutions in a uniform design.

Yet, only four easy steps are required to configure a luminaire: after having specified the exact dimensions and the type of installation, the type of lighting technology is selected in a second step – the arrangement of LED clusters can be as easily adjusted as the lighting quality. Material and colours can be configured as precisely as the large number of special extras which are optionally available, ranging from air supply and extraction through to presence detectors, loudspeakers and emergency lighting with ONLITE RESCLITE.

### Ceiling types:

- **C-strip grid ceilings**
- **visible T-beam ceilings**
- **inlay strip grid**

### Specifications:

<table>
<thead>
<tr>
<th>Linear luminaire</th>
<th>Square luminaire</th>
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<tbody>
<tr>
<td>Length</td>
<td>1100 – 1800 mm</td>
</tr>
<tr>
<td>Width</td>
<td>184 – 625 mm</td>
</tr>
<tr>
<td>Number</td>
<td>1 to 7 LED clusters</td>
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<tr>
<td></td>
<td>4 or 6 LED clusters</td>
</tr>
<tr>
<td>Length</td>
<td>580 – 625 mm</td>
</tr>
<tr>
<td>Width</td>
<td>580 – 625 mm</td>
</tr>
</tbody>
</table>
Configurator

The MIREL evolution modular luminaires are customised by Zumtobel staff members according to the customers’ requests directly on site. The Configurator guides the user through all selection steps and immediately displays the luminaire’s individually configured design in a luminaire preview. The configuration data can be saved in a PDF document by pressing a button and be sent via e-mail to the customer.
MIREL evolution wall washer
Asymmetric distribution wall washer

The MIREL evolution wall washer provides a high-quality solution where the even illumination of vertical solutions is required. The great flexibility is based on different mounting options and lamp dimensions that fit exactly in the ceiling openings of the MIREL T16 wall washer. For lighting renovation, the change to modern LED lighting is therefore possible without construction measures. General and blackboard lighting in classrooms can now be completely achieved with contemporary LED technology.
## MIREL evolution wall washer

### Product overview

**Recessed luminaire**

- (1:1 T16 replacement)
- Sizes:
  - 598 x 114 x 85 mm (M600L)
  - 1198 x 114 x 85 mm (M600L12)
  - 623 x 114 x 85 mm (M625L)
  - 1248 x 114 x 85 mm (M625L12)

**Surface-mounted luminaire**

- Sizes:
  - 1203 x 130 x 61 mm (L1200)

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<th>Feature</th>
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<th>Surface-mounted luminaire</th>
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<tr>
<td>Colour temperatures</td>
<td>4000 K</td>
<td>4000 K</td>
</tr>
<tr>
<td>Lumen packages</td>
<td>2200 lm</td>
<td>4400 lm</td>
</tr>
<tr>
<td>Housing colours</td>
<td>white</td>
<td>white</td>
</tr>
</tbody>
</table>
Best efficiency

With a luminaire efficiency of up to 140 lm/W, MIREL evolution is one of the most efficient luminaire families in its class. Not forgetting a lamp life of 50,000 hours and a luminous flux reduction to only 90 percent (L85). Hence, this further development of a louvre luminaire on LED basis is perfect for lighting renovations – loosely based on the credo: Better light at less cost.

Outstanding lighting effect

Optics with visible lenses or a closed cover provide the right light for every application area. Very good to excellent glare control, always complying with standards, the broad light distribution of the lens luminaire and good lighting quality ensure a high visual comfort and a pleasant room atmosphere.

Excellent glare control

Luminaries with lens optics ensure workplace lighting in accordance with the standard EN 12464:2011 with UGR < 16 and L65 < 1500 cd/m². Luminaires with a wide-angle lens optic and luminaires with an opal optic and lower luminous flux deliver UGR < 19 and L65 < 3000 cd/m² to ensure glare control that meets the relevant standards. The Wide Beam version also offers greater uniformity.

Flexible design

The flexible installation ranges from lay-in luminaires and height-adjustable recessed luminaires to surface-mounted and pendant luminaires. This opens up a wide range of designs in combination with different shapes.

Timeless design

MIREL evolution will impress you with its timeless look that offers the possibility of realising projects with different application areas in a consistent design.
MIREL evolution
Recessed, surface-mounted, pendant and free-standing LED luminaire

Overview

Installation
- Lay-in
- Recessed
- Assembly
- Customised recessed

Housing colours
- black or white

Shapes
- Square
- Linear
- Slim
- Mini

Optics
- Standard Beam lens optic
- Wide Beam lens optic
- LRO optic
- Opal optic

Free-standing luminaire
The Light.

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