# APOLLON®
# Comfortable light

The intelligent luminaire family for office and general lighting

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# Full flexibility with just one luminaire family

APOLLON® is the intelligent range of luminaires for office lighting and general lighting— with glare-free, pleasant light due to uniform light distribution and a discreet design that brings together functionality with a timelessly elegant style.

Designed for a wide range of uses: APOLLON® can be set according to requirements and enables individual lighting solutions within a system. With its recessed, suface-mounted and suspended versions in various sizes, it is suitable for almost all common applications in a building.

The uniform light distribution of APOLLON® creates soft contrasts and conveys a harmonious overall impression with standard-compliant light. Reflected and direct glare is avoided. This increases visual comfort and well-being.

The basis of this lighting quality is the special microprismatic optics with lateral light injection, achieving homogeneously illuminated light surfaces without visible light points. This enables light to be used as an element of design. The luminaires appear as "light windows" which can be grouped to form light ceilings.

### At a glance

- Homogeneous LED light window with uniform light distribution UGR ≤ 19
- VDU-compliant in accordance with EN 12464-1 for computer screens with high luminance levels
- Efficient and economical replacement for T5 and T8 louver luminaires
- Elegant design thanks to flat construction and high quality white frame
- Flexibility in mounting (recessed/surface-mounted luminaires, lay-in luminaires and suspended versions) and in areas of application (computer workstations, conference rooms and circulation zones)
- Integrated junction box for quick installation and easy through-wiring

# The extensively simple lighting solution

### Flexible and intelligent use

Due to its flat construction and concise design, APOLLON® blends seamlessly into virtually any ceiling—thus enabling elegant, visually harmonious interior designs.

With its completely homogeneously illuminated light surface it minimizes reflected glare as well as strong bright-dark contrasts and shadowing. As a lay-in luminaire, APOLLON® enables users to design with light. The luminaires appear as "light windows" which can also be grouped to form light ceilings. This makes APOLLON® suitable for almost all applications in offices (≤ 19: suitable for use with computer workstations) and public buildings.
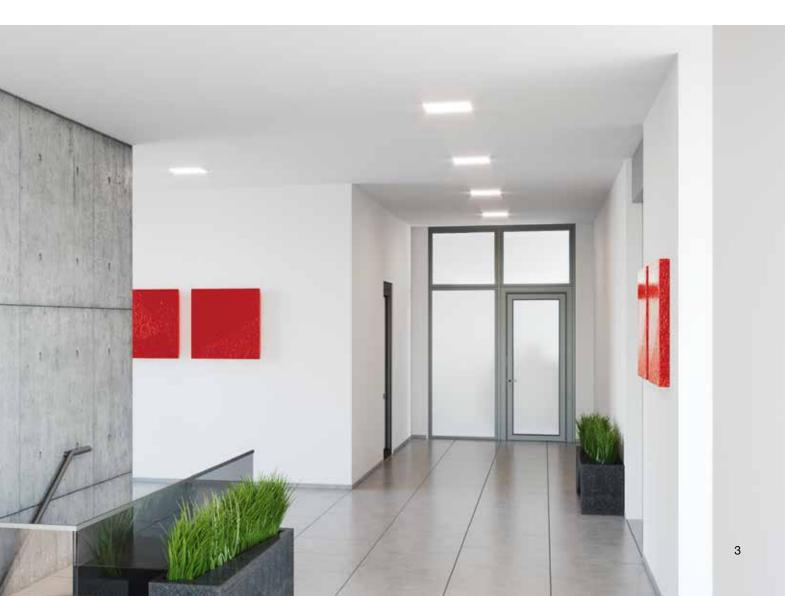
### Quick and simple installation

Thanks to the intelligent installation method, existing luminaires can be replaced directly without complex rewiring. At the same time, all variants can be easily through-wired (up to 2.5 mm) thanks to the integrated connection box. The sealed design also minimizes soiling and maintenance costs.

**Optional accessories enable additional mounting methods:**
- Recessed
- Surface-mounted
- Suspended

### Simple refurbishments

Standard dimensions and low connected loads make APOLLON® a low-maintenance and energy-efficient alternative to conventional louver luminaires. This enables energy savings of up to 55 % in comparison with equivalent T5 and T8 recessed luminaires. The 625 x 625 variants are particularly suitable when a solution is sought for the direct replacement of four-lamp, square T5 or T8 luminaires (4x 18 W and 4x 14 W).

# The APOLLON® range—
a new generation of light

## Tunable White: Dynamic light for HCL

Ideal lighting conditions for human well-being in offices, schools, the health sector and more: The concept of Human Centric Lighting (HCL) enables lighting solutions that can be individually adapted according to the work situation and time of day.

The HCL-supporting function "Tunable White" enables dynamic modification of the color temperature to the natural daytime rhythm of people. Biologically stimulating or calming light can be generated in the range of 2700–6500 K (warm white to daylight white).

Lighting conditions optimized with Tunable White have positive effects on visual comfort, emotional perception, concentration and sleeping rhythm / recovery—going hand-in-hand with increased well-being and improved motivation during everyday work.

### Technical details

- **Dynamically changeable color temperature (from 2700–6500 K)**
- **DALI DT8 control unit for highly precise settings**
- **High lumen output (4000 lm)** across all color temperatures with standard-compliant clear control (UGR ≤ 19 / ≤ 3000 cd/m²)

## Multilumen: One luminaire, multiple solutions

The innovative Multilumen lighting system enables different lumen packages to be set with just a single luminaire. Thus changes to room use and subsequently different lighting requirements can be effectively solved with high levels of flexibility.

For this purpose four different, manually settable luminous fluxes are available (from 3380 to 4180 lm with on/off functionality)—for the application-specific and needs-oriented illumination of room areas requiring different levels of illuminance. Thus Multilumen enables several, optimized lighting packages to be individually implemented, e.g. 500 lx for workstations, 300 lx for secondary areas and 100–300 lx for building accesses.

### Technical details

- **Four manually settable luminous fluxes** (from 3380 to 4180 lm) with on/off functionality
- **Optimized, efficient lighting design results** without light control

## CLO: Energy-saving efficiency

The CLO (Constant Lumen Output) function integrated in control units enables the reduction in luminous flux of the luminaire to be continuously compensated. From the start of service life, luminous flux is reduced to the level of luminous flux that the luminaire would have at the end of its service life after 50,000 h.

Accordingly, the power consumption is initially reduced via dimming and then only continuously increased during running operation via the DALI converter up to the specified power consumption. This protects the LED chip, reduces degradation and shifting of the color locus and saves up to 10 % of electricity costs over the complete service life.

### Technical details

- **Constant maintenance of initial luminous flux** until the end of rated service life (50,000 h)
- **10 % nominal energy savings** over the rated service life (compared to on/off functionality)
- **Optimized sizing of the installation** without over-planning (CLO = L100 at 50,000 h)

**APOLLON® 2**
600 x 600 mm and 625 x 625 mm

**Technical data**
- Dimensions: 597 x 597 mm, 622 x 622 mm
- Height: 50 mm with ECG
- Lumen packages: 4000 lm (4000 K), 3800 lm (3000 K)
- ECG: On/off (standard) or DALI, Multilumen, CLO
- Color temperature: 3000 K | 4000 K | 6500 K (for 625 x 625 mm)
- Type of mounting: Lay-in luminaire, recessing kit (for 625 x 625 mm), surface-mounting kit, suspension kit
- **Protection rating IP50 / IP54 (optional)**

**APOLLON®**
300 x 300 mm

**Technical data**
- Dimensions: 297 x 297 mm
- Height: 9 mm (39 with ECG)
- Lumen packages: 1800 lm (4000 K), 1700 lm (3000 K)
- ECG: On/off or DALI
- Color temperature: 3000 K | 4000 K
- Type of mounting: Recessed luminaire, surface-mounting kit
- UGR 21
- Protection rating IP20 (IP40 on room side)

**APOLLON®**
Rectangular narrow

**Technical data**
- Dimensions: 1247 x 182 mm (2400 lm), 1547 x 182 mm (3900 lm)
- Height: 11 mm (50 with ECG)
- ECG: On/off or DALI
- Color temperature: 4000 K
- Type of mounting: Lay-in luminaire, recessing kit (ceiling thicknesses to 60 mm), surface-mounting kit, suspension kit
- VDU-compliant according to EN 12464-1
- Protection rating IP20 (IP40 on room side)

**APOLLON®**
Rectangular wide

**Technical data**
- Dimensions: 1247 x 309 mm (3900 lm), 1197 x 297 mm (3900 lm), 1547 x 309 mm (6900 lm)
- Height: 11 mm (50 with ECG)
- ECG: On/off or DALI
- Color temperature: 4000 K
- Type of mounting: Lay-in luminaire, recessing kit (ceiling thicknesses to 60 mm), surface-mounting kit, suspension kit
- VDU-compliant according to EN 12464-1
- Protection rating IP20 (IP40 on room side)

## APOLLON®

Single luminaire for ceiling recessing, ceiling surface-mounting or suspended mounting | IP20/IP50 (on room side), insulation class II, IK02 | rated service life up to 50,000 h (L80/B50 @ ta 25°C), suitable for ambient temperatures -20°C…+40°C

| Description | K | UGR | Ra | lm | W | lm/W | Control | GTIN (EAN) | Order no. | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Square** <br> 300 x 300 mm | 3000 | ≤ 22 | > 80 | 1700 | 18 | 94 | On/off | 4052899565289 | 0MQ131723W1 | |
| | 3000 | ≤ 22 | > 80 | 1700 | 18 | 94 | DALI | 4052899565265 | 0MQ131D23W1 | |
| | 4000 | ≤ 22 | > 80 | 1800 | 18 | 100 | DALI | 4052899565258 | 0MQ131D24W1 | |
| **Square,** <br> **lay-in mounting, M600** <br> 597 x 597 mm | 3000 | ≤ 19 | > 80 | 4000 | 38 | 105 | On/off | 4058352318720 | 51MQ12W72312 | |
| | 3000 | ≤ 19 | > 80 | 3800 | 38 | 100 | DALI | 4058352318904 | 51MQ12WD2312 | |
| | 4000 | ≤ 19 | > 80 | 4180 | 38 | 110 | On/off | 4058352318737 | 51MQ12W72412 | |
| | 4000 | ≤ 19 | > 80 | 4000 | 38 | 105 | DALI | 4058352318911 | 51MQ12WD2412 | |
| | 4000 | ≤ 19 | > 90 | 3950 | 40 | 99 | DALI | 4058352321119 | 51MQ12WD2112 | NEW: CRI90 |
| | 4000 | ≤ 19 | > 80 | 4180 | 38 | 110 | DALI | 4058352327913 | 51MQ12WD2452 | NEW: IP54 |
| | 2700 K–6500 K | ≤ 19 | > 80 | 4200* | 40* | 111 | DALI DT8 | 4058352331903 | 51MQ12WD2T12 | NEW: TW |
| | 3000 | ≤ 19 | > 80 | 3810 | 36 | 106 | DALI, Linect | 4052899545748 | 0MQ121D33W1 | |
| | 4000 | ≤ 19 | > 80 | 4000 | 38 | 105 | DALI, Linect | 4058352327975 | 51MQ12WD3412 | |
| **Square,** <br> **lay-in mounting, M625** <br> 622 x 622 mm | 3000 | ≤ 19 | > 80 | 3810 | 36 | 105 | On/off | 4052899489370 | 0MQ111723W1 | |
| | 3000 | ≤ 19 | > 80 | 3800 | 38 | 100 | DALI | 4058352318782 | 51MQ11WD2312 | |
| | 4000 | ≤ 19 | > 80 | 4180 | 38 | 110 | On/off | 4058352318775 | 51MQ11W72412 | |
| | 4000 | ≤ 19 | > 80 | 4180 | 40 | 105 | On/off | 4058352321102 | 51MQ11WM2412 | NEW: Multilumen |
| | 4000 | ≤ 19 | > 80 | 4000 | 38 | 105 | DALI | 4058352318799 | 51MQ11WD2412 | |
| | 4000 | ≤ 19 | > 90 | 3950 | 40 | 99 | DALI | 4058352327586 | 51MQ11WD2112 | NEW: CRI90 |
| | 4000 | ≤ 19 | > 80 | 4180 | 38 | 110 | DALI | 4058352327913 | 51MQ11WD2452 | NEW: IP54 |
| | 4000 | ≤ 19 | > 80 | 4100 | 40 | 103 | DALI | 4058352327555 | 51MQ11WC2412 | NEW: CLO |
| | 6500 | ≤ 19 | > 80 | 4000 | 38 | 105 | DALI | 4058352327845 | 51MQ11WD2612 | NEW: 6500 K |
| | 2700 K–6500 K | ≤ 19 | > 80 | 4200* | 40* | 111 | DALI DT8 | 4058352331842 | 51MQ11WD2T12 | NEW: TW |
| **Rectangular,** <br> **lay-in mounting, M600** <br> 1195 x 295 mm | 4000 | ≤ 19 | > 80 | 4000 | 40 | 100 | On/off | 4058352259214 | 5MQ162724W1 | |
| | 4000 | ≤ 19 | > 80 | 4000 | 40 | 100 | DALI | 4058352259207 | 5MQ162D24W1 | |
| **Rectangular,** <br> **lay-in mounting, M625** <br> 1245 x 181 mm | 4000 | ≤ 19 | > 80 | 2200 | 22 | 100 | On/off | 4058352259252 | 5MQ141724W1 | |
| | 4000 | ≤ 19 | > 80 | 2200 | 22 | 100 | DALI | 4058352259245 | 5MQ141D24W1 | |
| <br> 1245 x 310 mm | 4000 | ≤ 19 | > 80 | 4000 | 40 | 100 | On/off | 4058352258996 | 5MQ142724W1 | |
| | 4000 | ≤ 19 | > 80 | 4000 | 40 | 100 | DALI | 4058352258989 | 5MQ142D24W1 | |
| <br> 1545 x 310 mm | 4000 | ≤ 19 | > 80 | 5900 | 60 | 98 | On/off | 4058352258972 | 5MQ152724W1 | |
| | 4000 | ≤ 19 | > 80 | 5900 | 60 | 98 | DALI | 4058352258958 | 5MQ152D24W1 | |
| **Rectangular,** <br> **lay-in mounting** <br> 1545 x 181 mm | 4000 | ≤ 19 | > 80 | 3400 | 34 | 100 | On/off | 4058352259238 | 5MQ151724W1 | |
| | 4000 | ≤ 19 | > 80 | 3400 | 34 | 100 | DALI | 4058352259221 | 5MQ151D24W1 | |

Energy efficiency class of LED modules contained: A++, A+, A. LED modules are non-replaceable

*Values applicable for 4000 K, preliminary data.

## Accessories

| Description | | GTIN (EAN) | Order no. |
|---|---|---|---|
| **Surface-mount housing, for luminaire** | 297 x 297 mm | 4058352261972 | 5MQ90131XC |
| | 596 x 596 mm | 4058352261958 | 5MQ90111XC |
| | 622 x 622 mm | 4058352261965 | 5MQ90121XC |
| | 1245 x 310 mm | 4058352261989 | 5MQ90142XC |
| | 1545 x 310 mm | 4058352262498 | 5MQ90152XC |
| **Ceiling-mount element** | 1–60 mm, rectangular | 4058352261927 | 5MQ90040XC |
| | 1–25 mm | 4058352343876 | 59MQ11001021 |
| **Safety wire** | 1500 mm | 4058352345344 | 59MQ91110 |
| **Y-wire suspension, with canopy** <br> 625 x 625 mm | for on/off variant | 4058352169674 | 5MQ91112 |
| | for on/off variant, Gen2 | 4058352347867 | 59MQ31000021 |
| | for DALI variant | 4058352174630 | 5MQ91113 |
| | for DALI variant, Gen2 | 4058352347881 | 59MQ32000021 |
| **APOLLON® Y-wire suspension,** <br> **rectangular** | for on/off variant | 59MQ30000021 <br> + 4039806507693 | 59MQ30000021 <br> + 5LF90003L (cable) |
| | for DALI variant | 59MQ30000021 <br> + 4039806507709 | 59MQ30000021 <br> + 5LF90006L (cable) |

For further accessories see the electronic catalog at: www.siteco.com

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