

This catalogue supersedes all previous issues. We reserve the right to make technical and design changes to improve our products or to meet modified statutory requirements. Current data will be supplied on request.

All ERCO product documentation can be found at www.erco.com.

Many products are protected by industrial patent rights.

LED modules are part of the luminaire.

Voltages given in this catalogue refer to a mains frequency of 50/60Hz.

Installation in accordance with the respective national installation regulations.

The standard finish of our products is specified in the product description. The following colours can also be supplied: white RAL 9002, white RAL 9010, silver RAL 9006 and black RAL 9011. Other colours on request.



DIN EN ISO 9001:2015
The ERCO Quality Management System has been organised in accordance with DIN EN ISO 9001:2015. The certified system includes: design/development, production, assembly, sales and service. ERCO sales organisations worldwide are always included in the management system and are regularly audited by ERCO auditors.

ERCO luminaires are designed, manufactured and tested in accordance with the applicable standards and technical regulations. The technical tests are implemented at 25°C ambient temperature.

The luminous flux values and photometric data also relate to a 25°C ambient temperature. At other temperatures, deviations from the catalogue data are possible.



DE AEOF 102810
ERCO GmbH was awarded the AEOF (Authorised Economic Operator Full) certificate on 27/8/2010. This certification confirms ERCO GmbH to be a particularly reliable and trustworthy partner in international trade. It governs the safety and efficiency of the supply chain through to the consumer.



The guarantee terms pertaining to the voluntary manufacturer's guarantee of 5 (five) years given by ERCO GmbH on ERCO products shall apply in addition to our General Terms and Conditions. Full details of these current guarantee terms are available on request by e-mailing guarantee@erco.com

Symbols and abbreviations

Luminaires and accessories bearing this sign meet the requirements of the LUM agreement.

DEKRA test mark

VDE test mark

SEMKO test mark

UL test mark

NEMKO testing laboratory

China Compulsory Product Certification, Safety & EMC

UK Conformity Assessed, British test mark

Regulatory Compliance Mark, Australian test mark

EAC Eurasian Conformity
All articles which are delivered to Russia (to the Russian Federation) and must be certified for this are EAC approved/certified and verified.

Luminaires with safety class I are provided with a connection for the protective conductor (PE) and are not specially marked.

Class II luminaires

Class III luminaires

IP20 All luminaires meet the requirements of protection mode IP20 and are not marked. Other protection modes are specified for each product.

IP44 Protected against the ingress of solid foreign objects greater than 1mm. Protected against splashing water from any direction.

IP65 Dust-tight. Protected against strong jets of water from any direction.

IP67 Dust-tight. Protected against the results of temporary immersion.

IP68 xm Dust-tight. Protection against the effects of permanent immersion to a depth of max. xm (x depends on the luminaire).

All luminaires comply with the F-conditions according to EN 60598 and are suitable for mounting on or in normally flammable mounting surfaces (building components).

Luminaires which are not suitable for covering with heat insulation material.

SELV Safety extra-low voltage according to EN 60558-2-6

FCC Federal Communications Commission

CE All products comply with the appropriate EU directives, e.g. the low voltage directive, the EMC (electromagnetic compatibility) directive and RoHS (restriction of the use of certain hazardous substances).

EEL Energy Efficiency Index
The Energy Efficiency Index of the LEDs used in our luminaires is shown in the data sheet of the luminaire.

CCR Constant Current Reduction Dimming method by which the amplitude of the current is changed by the LED according to the dimming value. Unlike PWM, the current value is constant in time.

PWM Pulse Width Modulation
In this dimming method, the current sent through an LED is switched on and off at a high frequency. Dimming is implemented by changing the ratio between switch-on and switch-off time.

L = Length
TL = Total length
B = Width
H = Height
T = Depth
D = Light beam diameter
CO = Ceiling aperture
RD = Recess depth
Ø = Diameter
□ = Square
max. = Maximum
kg = Approximate weight

All dimensions are in millimetres.



Information about LEDs

Due to the production process of LEDs, the specified typical LED parameters show statistical values only. Deviations are possible within the typical size range of LEDs and are within the usual industrial tolerances. The service life of an LED largely depends on the ambient temperatures. Therefore, the luminaires should not be installed near other sources of heat such as heating pipes, etc. Furthermore, these luminaires should not be operated when exposed to direct sunlight. Current information about the LEDs can be found on the specification sheets of the respective articles.



DALI (Digital Addressable Lighting Interface)

DALI luminaires are activated by any DALI lighting control system. A control unit (e.g. dimmer) with DALI Broadcast Signal may be used for specific purposes. All electrics must be installed as specified in the DALI standard. ERCO DALI control gear is compatible with the DALI 2.0 standard. General information on DALI is available at www.digitalilluminationinterface.org.

RGBW luminaires

With use of a DALI system with colour management (device type 8) the luminaire is controlled with one address. With operation in a system without colour management the luminaire can be reconfigured to three or four addresses.

Luminaires with tunable white

The tunable white component of a luminaire can only be controlled with a DALI system with colour management (device type 8). These systems detect the luminaire with one address. Alternatively, spotlights and recessed luminaires with tunable white can also be controlled via Casambi Bluetooth; individual product ranges can also be controlled via Zigbee 3.0.



Luminaires with Casambi Bluetooth

To control luminaires with Casambi Bluetooth, a mobile device with the free Casambi app or hardware approved for Casambi Bluetooth is required. The range of the Casambi mesh network can be affected by structural conditions.



Overvoltage protection for electronic control gear

If protection from spikes is required, e.g. when switching inductive loads, ERCO recommends the use of separate overvoltage protection units.

Electronic control gear in 3-circuit installation

To avoid damaging the electronic control gear, the neutral conductor of control gear in 3-circuit installations must never be disconnected.



Phase dimmable luminaires

LED luminaires can be dimmed depending on the type of control gear. Phase dimmable luminaires may only be used with suitable dimmers. Installation information in the mounting instructions of the luminaire and those of the dimmer manufacturer must be observed.

The dimming range specified in the product description is determined with regard to current dimmers. The actual dimming range available may vary from the product description, depending on the dimmer used and the load situation.

To ensure proper functioning of the dimmer, especially when using universal dimmers, check the luminaire/control gear/dimmer combination before installation.



Video compatibility

An LED luminaire is considered flicker-free if the SVM value is ≤ 0.1 and if the PstLM value is ≤ 1.0 . Luminaires with these properties are labelled with the "video compatible" icon. Both evaluation variables are defined as Temporal Light Artefacts (TLA) in Regulation EU 2019/2020 on Directive 2009/125/EC (Ecodesign Directive).

Information on environmental protection and luminaire disposal

ERCO products are manufactured in compliance with the REACH regulation and the RoHS directive.

WEEE

The WEEE (Waste Electrical and Electronic Equipment) directive of the EU for electric and electronic devices regulates the free return and environmentally friendly disposal and recycling of old and used electrical equipment by manufacturers and importers. The Directive aims to reduce the amount of electrical and electronic waste and encourage everyone to recycle the equipment.



Disposing of luminaires

ERCO has met the requirements of the WEEE Directive since March 2006 in that it has clearly marked all its products with the symbol of the crossed-out bin. These products may be returned free of charge. Alternatively, at the end of their service life, luminaires may be disposed of at appropriate local facilities provided for the disposal or recycling of electronic equipment.